

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

This attachment contains the laboratory analytical reports prepared by BC Laboratories, Inc., of Bakersfield, California.



Date of Report: 11/19/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1221275

Invoice ID: B134445

Enclosed are the results of analyses for samples received by the laboratory on 11/5/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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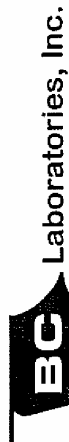
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Chain of Custody Form



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Required Fields

Report To: **Battelle MHTS**
 Client: **David Conner**
 Attn: **David Conner**
 Street Address: **505 King Ave.**
 City: **Columbus** State: **OH** Zip: **43201**
 Phone: **(614) 424-5489** Fax: **(614) 458-5489**
 Email Address: **connerd@battelle.org**
 Submission #: **12-21275**

Project Description: **JPL-GW Monitoring**
 Project Code: **4Q12**
 Sampler(s): **Blaine Tech**

Analysis Requested

VOCs EPA 524.2	X
Total Chromium 200.8 (ug/L)	X
Perchlorate 314.0	X
Hexavalent Cr6 -7196 (mg/L)	X
Chloride, Nitrate, Sulfate	
Orthophosphate 365.1	
Nitrite 353.2	

Billing
 Client: **SAME**
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Are there any tests with holding times less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Notes
 CHK BY: **DISTRICTION**
MS/MSD
SHORT HOLDING TIME
 NO₂ NO₃ OP SS
 DO CL BOD MEAS COT

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____ *Additional Charges May Apply

Comments:
 MIBU Site
 CVX RCRA
 Geotracker 5 File (CA Default)
 Geotracker 2 File
 Other (Specify) _____

Global ID:
 1. Received By: **Nicole (SC)** Date: **11/5/12** Time: **1400**
 2. Received By: **John** Date: **11/5/12** Time: **1530**
 3. Received By: **John** Date: **11/5/12** Time: **1805**

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com



Chain of Custody and Cooler Receipt Form for 1221275 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 1

Submission #: 12-21275

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: GPE Thermometer ID: 207 Date/Time 11-5-12
 Temperature: (A) 2.3 °C / (C) 25 °C Analyst Init JKW IB10

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A)									
40ml VOA VIAL		A3	A3	A3	A3	A3	A4	A3	A3	
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: JKW Date/Time: 11-5-12 1825
 A = Actual C = Collected



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221275-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-1-110512 Sampled By: Blaine Tech of BAT	Receive Date: 11/05/2012 18:05 Sampling Date: 11/05/2012 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-1-110512 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221275-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-1-110512 Sampled By: Blaine Tech of BAT	Receive Date: 11/05/2012 18:05 Sampling Date: 11/05/2012 08:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-1-110512 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221275-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/05/2012 18:05 Sampling Date: 11/05/2012 09:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221275-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/05/2012 18:05 Sampling Date: 11/05/2012 09:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221275-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/05/2012 18:05 Sampling Date: 11/05/2012 10:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221275-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/05/2012 18:05 Sampling Date: 11/05/2012 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221275-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/05/2012 18:05 Sampling Date: 11/05/2012 11:25 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221275-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/05/2012 18:05 Sampling Date: 11/05/2012 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221275-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/05/2012 18:05 Sampling Date: 11/05/2012 13:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-01	Client Sample Name: JPL-GW, TB-1-110512, 11/5/2012 8:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-01	Client Sample Name: JPL-GW, TB-1-110512, 11/5/2012 8:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-01	Client Sample Name: JPL-GW, TB-1-110512, 11/5/2012 8:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/12/12 22:32	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221275-01	Client Sample Name: JPL-GW, TB-1-110512, 11/5/2012 8:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/12/12 22:32	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-02	Client Sample Name: JPL-GW, EB-1-110512, 11/5/2012 8:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-02	Client Sample Name: JPL-GW, EB-1-110512, 11/5/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-02	Client Sample Name: JPL-GW, EB-1-110512, 11/5/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/12/12 22:54	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221275-02	Client Sample Name: JPL-GW, EB-1-110512, 11/5/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/12/12 22:54	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221275-02	Client Sample Name: JPL-GW, EB-1-110512, 11/5/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/07/12	11/07/12 09:19	LD1	IC6	1	BVK0534



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221275-02	Client Sample Name: JPL-GW, EB-1-110512, 11/5/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/06/12	11/06/12 08:30	TDC	KONE-1	1	BVK0398
2	EPA-200.8	11/08/12	11/09/12 14:27	SRM	PE-EL2	1	BVK0611



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-03	Client Sample Name: JPL-GW, MW-20-5, 11/5/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-03		Client Sample Name: JPL-GW, MW-20-5, 11/5/2012 9:20:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.27	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.47	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-03	Client Sample Name: JPL-GW, MW-20-5, 11/5/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/12/12 23:17	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221275-03	Client Sample Name: JPL-GW, MW-20-5, 11/5/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/12/12 23:17	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221275-03	Client Sample Name: JPL-GW, MW-20-5, 11/5/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/07/12	11/07/12 09:32	LD1	IC6	1	BVK0534



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221275-03	Client Sample Name: JPL-GW, MW-20-5, 11/5/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00075	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	11/06/12	11/06/12	08:30	TDC	KONE-1	1	BVK0398
2	EPA-200.8	11/12/12	11/12/12	18:44	SRM	PE-EL2	1	BVK0829



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-04	Client Sample Name: JPL-GW, MW-20-4, 11/5/2012 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-04	Client Sample Name: JPL-GW, MW-20-4, 11/5/2012 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.44	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-04	Client Sample Name: JPL-GW, MW-20-4, 11/5/2012 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/12/12 23:39	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221275-04	Client Sample Name: JPL-GW, MW-20-4, 11/5/2012 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/12/12 23:39	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221275-04	Client Sample Name: JPL-GW, MW-20-4, 11/5/2012 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/07/12	11/07/12 09:45	LD1	IC6	1	BVK0534



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221275-04	Client Sample Name: JPL-GW, MW-20-4, 11/5/2012 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-7196	11/06/12	11/06/12 08:30	TDC	KONE-1	1	BVK0398	
2	EPA-200.8	11/12/12	11/12/12 18:47	SRM	PE-EL2	1	BVK0829	

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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-05	Client Sample Name: JPL-GW, MW-20-3, 11/5/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-05	Client Sample Name: JPL-GW, MW-20-3, 11/5/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	0.13	ug/L	0.50	0.098	EPA-524.2	ND	J	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.32	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.24	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.31	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	2.0	ug/L	5.0	1.2	EPA-524.2	ND	J	1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.56	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-05	Client Sample Name: JPL-GW, MW-20-3, 11/5/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/13/12 00:02	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221275-05	Client Sample Name: JPL-GW, MW-20-3, 11/5/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/13/12 00:02	MGC	MS-V5	1	BVK0836

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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221275-05	Client Sample Name: JPL-GW, MW-20-3, 11/5/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/07/12	11/07/12 11:32	LD1	IC6	1	BVK0534



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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221275-05	Client Sample Name: JPL-GW, MW-20-3, 11/5/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00070	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	11/06/12	11/06/12	08:30	TDC	KONE-1	1	BVK0398
2	EPA-200.8	11/12/12	11/12/12	18:50	SRM	PE-EL2	1	BVK0829



Battelle MHTS
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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-06	Client Sample Name: JPL-GW, MW-20-2, 11/5/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.18	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-06	Client Sample Name: JPL-GW, MW-20-2, 11/5/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.090	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.18	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.68	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-06	Client Sample Name: JPL-GW, MW-20-2, 11/5/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/13/12 00:24	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221275-06	Client Sample Name: JPL-GW, MW-20-2, 11/5/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/13/12 00:24	MGC	MS-V5	1	BVK0836

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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221275-06	Client Sample Name: JPL-GW, MW-20-2, 11/5/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.5	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/07/12	11/07/12 10:12	LD1	IC6	1	BVK0534



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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221275-06	Client Sample Name: JPL-GW, MW-20-2, 11/5/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/06/12	11/06/12 08:30	TDC	KONE-1	1	BVK0398
2	EPA-200.8	11/12/12	11/12/12 18:53	SRM	PE-EL2	1	BVK0829



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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-07	Client Sample Name: JPL-GW, MW-20-1, 11/5/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.26	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-07	Client Sample Name: JPL-GW, MW-20-1, 11/5/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.26	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-07	Client Sample Name: JPL-GW, MW-20-1, 11/5/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/12/12 20:17	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221275-07	Client Sample Name: JPL-GW, MW-20-1, 11/5/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/12/12 20:17	MGC	MS-V5	1	BVK0836

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221275-07	Client Sample Name: JPL-GW, MW-20-1, 11/5/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/07/12	11/07/12 10:25	LD1	IC6	1	BVK0534



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221275-07	Client Sample Name: JPL-GW, MW-20-1, 11/5/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	11/06/12	11/06/12	11:20	TDC	KONE-1	1	BVK0399
2	EPA-200.8	11/12/12	11/12/12	18:19	SRM	PE-EL2	1	BVK0829



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-08	Client Sample Name: JPL-GW, MW-19-5, 11/5/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.20	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-08	Client Sample Name: JPL-GW, MW-19-5, 11/5/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.82	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.14	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-08	Client Sample Name: JPL-GW, MW-19-5, 11/5/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/13/12 00:47	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221275-08	Client Sample Name: JPL-GW, MW-19-5, 11/5/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/13/12 00:47	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221275-08	Client Sample Name: JPL-GW, MW-19-5, 11/5/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.4	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/13/12 01:42	LS1	IC6	1	BVK0870



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221275-08	Client Sample Name: JPL-GW, MW-19-5, 11/5/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00094	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	0.75	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/06/12	11/06/12 08:34	TDC	KONE-1	1	BVK0398
2	EPA-200.8	11/12/12	11/12/12 18:56	SRM	PE-EL2	1	BVK0829



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-09	Client Sample Name: JPL-GW, MW-19-4, 11/5/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.17	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-09	Client Sample Name: JPL-GW, MW-19-4, 11/5/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.26	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.13	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221275-09	Client Sample Name: JPL-GW, MW-19-4, 11/5/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/13/12 01:09	MGC	MS-V5	1	BVK0836



Battelle MHTS
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Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221275-09	Client Sample Name: JPL-GW, MW-19-4, 11/5/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/12/12	11/13/12 01:09	MGC	MS-V5	1	BVK0836



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221275-09	Client Sample Name: JPL-GW, MW-19-4, 11/5/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.4	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/13/12 02:08	LS1	IC6	1	BVK0870



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221275-09	Client Sample Name: JPL-GW, MW-19-4, 11/5/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0028	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/06/12	11/06/12 08:34	TDC	KONE-1	1	BVK0398
2	EPA-200.8	11/12/12	11/12/12 18:59	SRM	PE-EL2	1	BVK0829



Battelle MHTS
505 King Ave.
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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0836						
Benzene	BVK0836-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK0836-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK0836-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK0836-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK0836-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK0836-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK0836-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK0836-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK0836-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK0836-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK0836-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK0836-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK0836-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK0836-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK0836-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK0836-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVK0836-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK0836-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK0836-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK0836-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK0836-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK0836-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK0836-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK0836-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK0836-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK0836-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK0836-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK0836-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK0836-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK0836-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK0836-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK0836-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK0836-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK0836-BLK1	ND	ug/L	0.50	0.14	

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505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0836						
trans-1,3-Dichloropropene	BVK0836-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK0836-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK0836-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK0836-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK0836-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK0836-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK0836-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK0836-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK0836-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK0836-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK0836-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2-Tetrachloroethane	BVK0836-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK0836-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK0836-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK0836-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK0836-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVK0836-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK0836-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK0836-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK0836-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK0836-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK0836-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK0836-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK0836-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK0836-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK0836-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK0836-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK0836-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK0836-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK0836-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK0836-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK0836-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK0836-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK0836-BLK1	ND	ug/L	4.0	0.97	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0836						
Ethyl t-butyl ether	BVK0836-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK0836-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK0836-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK0836-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK0836-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK0836-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK0836-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK0836-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK0836-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK0836-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK0836-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK0836-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK0836-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK0836-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK0836-BLK1	99.0	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK0836-BLK1	97.8	%	80 - 120 (LCL - UCL)		

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK0836										
Benzene	BVK0836-BS1	LCS	23.780	25.000	ug/L	95.1		70 - 130		
Bromodichloromethane	BVK0836-BS1	LCS	25.500	25.000	ug/L	102		70 - 130		
Chlorobenzene	BVK0836-BS1	LCS	22.850	25.000	ug/L	91.4		70 - 130		
Chloroethane	BVK0836-BS1	LCS	25.660	25.000	ug/L	103		70 - 130		
1,4-Dichlorobenzene	BVK0836-BS1	LCS	21.630	25.000	ug/L	86.5		70 - 130		
1,1-Dichloroethane	BVK0836-BS1	LCS	23.260	25.000	ug/L	93.0		70 - 130		
1,1-Dichloroethene	BVK0836-BS1	LCS	22.960	25.000	ug/L	91.8		70 - 130		
Toluene	BVK0836-BS1	LCS	24.760	25.000	ug/L	99.0		70 - 130		
Trichloroethene	BVK0836-BS1	LCS	24.880	25.000	ug/L	99.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK0836-BS1	LCS	9.7200	10.000	ug/L	97.2		75 - 125		
Toluene-d8 (Surrogate)	BVK0836-BS1	LCS	10.100	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK0836-BS1	LCS	9.7400	10.000	ug/L	97.4		80 - 120		



Battelle MHTS
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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery		Lab
								RPD	Percent Recovery	
QC Batch ID: BVK0836										
Used client sample: Y - Description: MW-20-1, 11/05/2012 11:25										
Benzene	MS	1221275-07	ND	24.520	25.000	ug/L		98.1		70 - 130
	MSD	1221275-07	ND	23.900	25.000	ug/L	2.6	95.6	20	70 - 130
Bromodichloromethane	MS	1221275-07	ND	27.090	25.000	ug/L		108		70 - 130
	MSD	1221275-07	ND	27.400	25.000	ug/L	1.1	110	20	70 - 130
Chlorobenzene	MS	1221275-07	ND	23.320	25.000	ug/L		93.3		70 - 130
	MSD	1221275-07	ND	23.350	25.000	ug/L	0.1	93.4	20	70 - 130
Chloroethane	MS	1221275-07	ND	26.020	25.000	ug/L		104		70 - 130
	MSD	1221275-07	ND	25.420	25.000	ug/L	2.3	102	20	70 - 130
1,4-Dichlorobenzene	MS	1221275-07	ND	22.700	25.000	ug/L		90.8		70 - 130
	MSD	1221275-07	ND	22.520	25.000	ug/L	0.8	90.1	20	70 - 130
1,1-Dichloroethane	MS	1221275-07	ND	23.780	25.000	ug/L		95.1		70 - 130
	MSD	1221275-07	ND	23.430	25.000	ug/L	1.5	93.7	20	70 - 130
1,1-Dichloroethene	MS	1221275-07	ND	23.680	25.000	ug/L		94.7		70 - 130
	MSD	1221275-07	ND	23.080	25.000	ug/L	2.6	92.3	20	70 - 130
Toluene	MS	1221275-07	ND	25.340	25.000	ug/L		101		70 - 130
	MSD	1221275-07	ND	24.880	25.000	ug/L	1.8	99.5	20	70 - 130
Trichloroethene	MS	1221275-07	ND	23.460	25.000	ug/L		93.8		70 - 130
	MSD	1221275-07	ND	23.050	25.000	ug/L	1.8	92.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221275-07	ND	10.010	10.000	ug/L		100		75 - 125
	MSD	1221275-07	ND	9.6800	10.000	ug/L	3.4	96.8		75 - 125
Toluene-d8 (Surrogate)	MS	1221275-07	ND	10.090	10.000	ug/L		101		80 - 120
	MSD	1221275-07	ND	10.130	10.000	ug/L	0.4	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221275-07	ND	9.5200	10.000	ug/L		95.2		80 - 120
	MSD	1221275-07	ND	9.5900	10.000	ug/L	0.7	95.9		80 - 120

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0836						
Chloroacetonitrile	BVK0836-BLK1	0	ug/L			
1-Chlorobutane	BVK0836-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK0836-BLK1	0	ug/L			
Methyl acrylate	BVK0836-BLK1	0	ug/L			
Nitrobenzene	BVK0836-BLK1	0	ug/L			
2-Nitropropane	BVK0836-BLK1	0	ug/L			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0534						
Perchlorate	BVK0534-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: BVK0870						
Perchlorate	BVK0870-BLK1	ND	ug/L	4.0	0.81	



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Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK0534										
Perchlorate	BVK0534-BS1	LCS	11.010	10.000	ug/L	110		85 - 115		
QC Batch ID: BVK0870										
Perchlorate	BVK0870-BS1	LCS	10.759	10.000	ug/L	108		85 - 115		



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Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK0534		Used client sample: Y - Description: MW-20-1, 11/05/2012 11:25								
Perchlorate	DUP	1221275-07	ND	ND		ug/L			15	
	MS	1221275-07	ND	9.7416	10.101	ug/L		96.4		80 - 120
	MSD	1221275-07	ND	9.6384	10.101	ug/L	1.1	95.4	15	80 - 120
QC Batch ID: BVK0870		Used client sample: N								
Perchlorate	DUP	1221586-01	1.0169	1.0856		ug/L	6.5		15	J
	MS	1221586-01	1.0169	9.6038	10.101	ug/L		85.0		80 - 120
	MSD	1221586-01	1.0169	9.4628	10.101	ug/L	1.5	83.6	15	80 - 120



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0398						
Hexavalent Chromium	BVK0398-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK0399						
Hexavalent Chromium	BVK0399-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK0611						
Total Recoverable Chromium	BVK0611-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BVK0829						
Total Recoverable Chromium	BVK0829-BLK1	ND	ug/L	3.0	0.50	



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Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVK0398											
Hexavalent Chromium	BVK0398-BS1	LCS	0.049278	0.050000	mg/L	98.6		85	115		
QC Batch ID: BVK0399											
Hexavalent Chromium	BVK0399-BS1	LCS	0.047687	0.050000	mg/L	95.4		85	115		
QC Batch ID: BVK0611											
Total Recoverable Chromium	BVK0611-BS1	LCS	40.716	40.000	ug/L	102		85	115		
QC Batch ID: BVK0829											
Total Recoverable Chromium	BVK0829-BS1	LCS	40.490	40.000	ug/L	101		85	115		

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Battelle MHTS
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Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0398		Used client sample: Y - Description: EB-1-110512, 11/05/2012 08:50								
Hexavalent Chromium	DUP	1221275-02	ND	ND		mg/L			10	
	MS	1221275-02	ND	0.050847	0.052632	mg/L		96.6		85 - 115
	MSD	1221275-02	ND	0.051072	0.052632	mg/L	0.4	97.0	10	85 - 115
QC Batch ID: BVK0399		Used client sample: Y - Description: MW-20-1, 11/05/2012 11:25								
Hexavalent Chromium	DUP	1221275-07	ND	ND		mg/L			10	
	MS	1221275-07	ND	0.050619	0.052632	mg/L		96.2		85 - 115
	MSD	1221275-07	ND	0.050287	0.052632	mg/L	0.7	95.5	10	85 - 115
QC Batch ID: BVK0611		Used client sample: N								
Total Recoverable Chromium	DUP	1221400-01	1.9070	2.0230		ug/L	5.9		20	J
	MS	1221400-01	1.9070	41.114	40.000	ug/L		98.0		70 - 130
	MSD	1221400-01	1.9070	42.828	40.000	ug/L	4.1	102	20	70 - 130
QC Batch ID: BVK0829		Used client sample: Y - Description: MW-20-1, 11/05/2012 11:25								
Total Recoverable Chromium	DUP	1221275-07	ND	ND		ug/L			20	
	MS	1221275-07	ND	38.750	40.000	ug/L		96.9		70 - 130
	MSD	1221275-07	ND	41.210	40.000	ug/L	6.2	103	20	70 - 130

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/19/2012 11:28
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/21/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1221405

Invoice ID: B134634

Enclosed are the results of analyses for samples received by the laboratory on 11/6/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form



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*Required Fields

Report To: Battelle MHTS
 Client: David Conner
 Attn: David Conner
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone: (614) 424-5489 Fax: (614) 458-5489
 Email Address: connerd@battelle.org
 Submission #: 12-21405

Project Description: JPL-GW Monitoring
 Project Code: 4Q12
 Sampler (s): Blaine Tech

Client: SAME
 Attn:
 Address:
 City: State: Zip:
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*	Notes
-1	TB-1-110612	11-6-12	0800	AQ	CHK BY DISTRIBUTION
-2	SB-1-110612		0810		
-3	EB-2-110612		0820		
-4	MW-19-3		0845		
-5	AR DUPE-1-4Q12		0845		
-6	MW-19-2		0935		Level IV
-7	MW-19-1		1020		
-8	MW-14-5		1215		SHORT HOLDING TIME
-9	MW-14-4		1300		Cr ¹⁶ NO ₂ NO ₃ OP SS
-10	MW-14-3		1345		DO Cl ₂ BOD MBAS COT
-11	MW-14-2		1415	↓	

Analysis Requested: Nitrite 353.2, Orthophosphate 365.1, Chloride, Nitrate, Sulfate, Hexavalent Cr6 -7196 (mg/L), Perchlorate 314.0, Total Chromium 200.8 (ug/L), VOCs EPA 524.2

Matrix Types: S = Soil, SL = Sludge, DW = Drinking Water, WW = Wastewater, GW = Groundwater, L = Liquid, M = Miscellaneous, O = Other

Turnaround # of working days: 24 Hr Rush, 48 Hr Rush, 3-5 Day Rush, Normal (10 - Days)

Lab TAT Approval: _____ *Additional Charges May Apply

Global ID: _____

Cost Center: _____

1. Relinquished By: [Signature] Date: 11-6-12 Time: 1630
 2. Relinquished By: [Signature] Date: 11/6/12 Time: 1655
 3. Relinquished By: [Signature] Date: 11-6-12 Time: 2050

MBU Site:
 CVX RCRA:
 Geotracker 5 File (CA Default):
 Geotracker 2 File:
 Other (Specify): _____

Comments: *****PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)*****
 *****Also, please indicate which samples are level III and level IV CLP*****

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com



Chain of Custody Form

BC Laboratories, Inc.

Page 2 of 2

*Required Fields

Report To: Battelle MHTS Client: David Conner Attn: David Conner Street Address: 505 King Ave. City: Columbus State: OH Zip: 43201 Phone: (614) 424-5489 Fax: (614) 458-5489 Email Address: connerd@battelle.org Submission #: 12-21405		Project Description: JPL-GW Monitoring Project Code: 4Q12 Sampler (s): Blaine Tech		Billing Client: SAME Attn: Address: City: State: Zip: Are there any tests with holding times? less than or equal to 48 hours? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *Standard Turnaround = 10	
Analysis Requested VOCs EPA 524.2 Total Chromium 200.8 (ug/L) Perchlorate 314.0 Hexavalent Cr6 - 7196 (mg/L) Chloride, Nitrate, Sulfate Orthophosphate 365.1 Nitrite 353.2		Notes 			
Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other	Turnaround # of working days: <input type="checkbox"/> 24 Hr Rush <input type="checkbox"/> 48 Hr Rush <input checked="" type="checkbox"/> Normal (10 - Days)	Lab TAT Approval:	Cost Center: 1. Relinquished By: [Signature] Date: 11-6-12 Time: 10:20 2. Relinquished By: [Signature] Date: 11/6/12 Time: 16:25 3. Relinquished By: [Signature] Date: 11-6-12 Time: 20:50	Global ID: 1. Received By: [Signature] Date: 11/6/12 Time: 16:30 2. Received By: [Signature] Date: 11/6/12 Time: 16:30 3. Received By: [Signature] Date: 11-6-12 Time: 20:50	Comments: *****PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MSMSD)***** *****Also, please indicate which samples are level III and level IV CLP*****

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Chain of Custody and Cooler Receipt Form for 1221405 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 of 2

Submission #: 12-21405

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, Box, None, Other.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes/No.

All samples received? All samples containers intact? Description(s) match COC?

COC Received: YES/NO. Emissivity: 0.95. Container: DTP. Thermometer ID: 207. Date/Time: 11/06/12. Analyst Init: KIQ 2050. Temperature: (A) 0.5 C / (C) 0.7 C.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc. with handwritten entries like 'B', 'C', 'A1', 'A3', 'A4'.

Comments: Sample Numbering Completed By: JKW Date/Time: 11-0-12 2:00. A = Actual / C = Corrected



COOLER RECEIPT FORM

Rev. No. 13 08/17/12 Page 2 of 2

Chain of Custody and Cooler Receipt Form for 1221405 Page 4 of 4

BC LABORATORIES INC. Submission #: 12-21405

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, Box, None, Other.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes/No.

All samples received? Yes/No. All samples containers intact? Yes/No. Description(s) match COC? Yes/No.

COC Received: YES/NO. Emissivity: 0.95. Container: OPE. Thermometer ID: 207. Date/Time: 11/06/12. Analyst Init: KIQ 2050. Temperature: (A) 0.5 °C / (C) 0.7 °C.

Table with columns: SAMPLE CONTAINERS, SAMPLE NUMBERS (1-10). Rows include: QT GENERAL MINERAL/ GENERAL PHYSICAL, PT PE UNPRESERVED, QT INORGANIC CHEMICAL METALS, PT INORGANIC CHEMICAL METALS, PT CYANIDE, PT NITROGEN FORMS, PT TOTAL SULFIDE, 2oz. NITRATE / NITRITE, PT TOTAL ORGANIC CARBON, PT TOX, PT CHEMICAL OXYGEN DEMAND, PIA PHENOLICS, 40ml VOA VIAL TRAVEL BLANK, 40ml VOA VIAL (A.3, A.3), QT EPA 413.1, 413.2, 418.1, PT ODOR, RADIOLOGICAL, BACTERIOLOGICAL, 40 ml VOA VIAL- 504, QT EPA 508/608/8080, QT EPA 515.1/8150, QT EPA 525, QT EPA 525 TRAVEL BLANK, 100ml EPA 547, 100ml EPA 531.1, QT EPA 548, QT EPA 549, QT EPA 632, QT EPA 8015M, QT AMBER, 8 OZ. JAR, 32 OZ. JAR, SOIL SLEEVE, PCB VIAL, PLASTIC BAG, FERROUS IRON, ENCORE, SMART KIT.

Comments: Sample Numbering Completed By: JKW Date/Time: 11-6-12 2050. A = Actual / C = Corrected



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221405-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-2-110612 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-2-110612 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221405-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: SB-1-110612 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 08:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-1-110612 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221405-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-2-110612 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 08:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-2-110612 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221405-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221405-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUPE-1-4Q12 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUPE-1-4Q12 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221405-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 09:35 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221405-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 10:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221405-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 12:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221405-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221405-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 13:45 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221405-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 14:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221405-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/06/2012 20:50 Sampling Date: 11/06/2012 14:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-01	Client Sample Name: JPL-GW, TB-2-110612, 11/6/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-01	Client Sample Name: JPL-GW, TB-2-110612, 11/6/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-01	Client Sample Name: JPL-GW, TB-2-110612, 11/6/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 15:01	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-01	Client Sample Name: JPL-GW, TB-2-110612, 11/6/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 15:01	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-02	Client Sample Name: JPL-GW, SB-1-110612, 11/6/2012 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-02	Client Sample Name: JPL-GW, SB-1-110612, 11/6/2012 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	0.10	ug/L	0.50	0.098	EPA-524.2	ND	J	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-02	Client Sample Name: JPL-GW, SB-1-110612, 11/6/2012 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	0.37	ug/L	0.50	0.28	EPA-524.2	ND	J	1
o-Xylene	0.22	ug/L	0.50	0.082	EPA-524.2	ND	J	1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 15:23	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-02	Client Sample Name: JPL-GW, SB-1-110612, 11/6/2012 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 15:23	MGC	MS-V5	1	BVK0837

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-03	Client Sample Name: JPL-GW, EB-2-110612, 11/6/2012 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-03	Client Sample Name: JPL-GW, EB-2-110612, 11/6/2012 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-03	Client Sample Name: JPL-GW, EB-2-110612, 11/6/2012 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	0.16	ug/L	0.50	0.082	EPA-524.2	ND	J	1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 15:46	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-03	Client Sample Name: JPL-GW, EB-2-110612, 11/6/2012 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 15:46	MGC	MS-V5	1	BVK0837



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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221405-03	Client Sample Name: JPL-GW, EB-2-110612, 11/6/2012 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/12/12 18:36	LS1	IC6	1	BVK0869



Battelle MHTS
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221405-03	Client Sample Name: JPL-GW, EB-2-110612, 11/6/2012 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/07/12	11/07/12 01:28	TDC	KONE-1	1	BVK0478
2	EPA-200.8	11/12/12	11/12/12 17:13	SRM	PE-EL2	1	BVK0828



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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-04	Client Sample Name: JPL-GW, MW-19-3, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.15	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-04	Client Sample Name: JPL-GW, MW-19-3, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.33	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-04	Client Sample Name: JPL-GW, MW-19-3, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 16:08	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-04	Client Sample Name: JPL-GW, MW-19-3, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 16:08	MGC	MS-V5	1	BVK0837

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221405-04	Client Sample Name: JPL-GW, MW-19-3, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.8	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/12/12 19:29	LS1	IC6	1	BVK0869

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221405-04	Client Sample Name: JPL-GW, MW-19-3, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0023	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/12	11/07/12 01:29	TDC	KONE-1	1	BVK0478
2	EPA-200.8	11/12/12	11/12/12 17:32	SRM	PE-EL2	1	BVK0828



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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-05	Client Sample Name: JPL-GW, DUPE-1-4Q12, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-05	Client Sample Name: JPL-GW, DUPE-1-4Q12, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.27	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-05	Client Sample Name: JPL-GW, DUPE-1-4Q12, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 16:31	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-05	Client Sample Name: JPL-GW, DUPE-1-4Q12, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 16:31	MGC	MS-V5	1	BVK0837



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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221405-05	Client Sample Name: JPL-GW, DUPE-1-4Q12, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/12/12 19:42	LS1	IC6	1	BVK0869



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505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221405-05	Client Sample Name: JPL-GW, DUPE-1-4Q12, 11/6/2012 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0025	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.9	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/12	11/07/12 01:29	TDC	KONE-1	1	BVK0478
2	EPA-200.8	11/12/12	11/12/12 19:02	SRM	PE-EL2	1	BVK0829



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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-06	Client Sample Name: JPL-GW, MW-19-2, 11/6/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	0.16	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.50	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.24	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.24	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-06	Client Sample Name: JPL-GW, MW-19-2, 11/6/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.55	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.4	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-06	Client Sample Name: JPL-GW, MW-19-2, 11/6/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 16:53	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-06	Client Sample Name: JPL-GW, MW-19-2, 11/6/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 16:53	MGC	MS-V5	1	BVK0837

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Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221405-06	Client Sample Name: JPL-GW, MW-19-2, 11/6/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.2	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/13/12 10:04	LD1	IC6	1	BVK0869

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221405-06	Client Sample Name: JPL-GW, MW-19-2, 11/6/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0015	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	24	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/12	11/07/12 08:07	TDC	KONE-1	1	BVK0478
2	EPA-200.8	11/12/12	11/12/12 19:05	SRM	PE-EL2	1	BVK0829



Battelle MHTS
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-07	Client Sample Name: JPL-GW, MW-19-1, 11/6/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-07	Client Sample Name: JPL-GW, MW-19-1, 11/6/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-07	Client Sample Name: JPL-GW, MW-19-1, 11/6/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 17:15	MGC	MS-V5	1	BVK0837

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Battelle MHTS
505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-07	Client Sample Name: JPL-GW, MW-19-1, 11/6/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 17:15	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221405-07	Client Sample Name: JPL-GW, MW-19-1, 11/6/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/12/12 20:36	LS1	IC6	1	BVK0869

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Battelle MHTS
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221405-07	Client Sample Name: JPL-GW, MW-19-1, 11/6/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/07/12	11/07/12 08:07	TDC	KONE-1	1	BVK0478
2	EPA-200.8	11/12/12	11/12/12 19:08	SRM	PE-EL2	1	BVK0829



Battelle MHTS
505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-08	Client Sample Name: JPL-GW, MW-14-5, 11/6/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-08	Client Sample Name: JPL-GW, MW-14-5, 11/6/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-08	Client Sample Name: JPL-GW, MW-14-5, 11/6/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 17:38	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-08	Client Sample Name: JPL-GW, MW-14-5, 11/6/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 17:38	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221405-08	Client Sample Name: JPL-GW, MW-14-5, 11/6/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/12/12 20:49	LS1	IC6	1	BVK0869



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221405-08	Client Sample Name: JPL-GW, MW-14-5, 11/6/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/07/12	11/07/12 08:07	TDC	KONE-1	1	BVK0478
2	EPA-200.8	11/13/12	11/13/12 15:47	SRM	PE-EL2	1	BVK0927



Battelle MHTS
505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-09	Client Sample Name: JPL-GW, MW-14-4, 11/6/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.19	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.12	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-09	Client Sample Name: JPL-GW, MW-14-4, 11/6/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.14	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.18	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-09	Client Sample Name: JPL-GW, MW-14-4, 11/6/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 18:00	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-09	Client Sample Name: JPL-GW, MW-14-4, 11/6/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 18:00	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221405-09	Client Sample Name: JPL-GW, MW-14-4, 11/6/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.2	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/13/12 10:17	LD1	IC6	1	BVK0869

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221405-09	Client Sample Name: JPL-GW, MW-14-4, 11/6/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0014	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	0.77	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/12	11/07/12 08:07	TDC	KONE-1	1	BVK0478
2	EPA-200.8	11/13/12	11/13/12 15:50	SRM	PE-EL2	1	BVK0927



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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-10	Client Sample Name: JPL-GW, MW-14-3, 11/6/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.44	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	0.080	ug/L	0.50	0.072	EPA-524.2	ND	J	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.24	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.11	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-10	Client Sample Name: JPL-GW, MW-14-3, 11/6/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.33	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.3	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-10	Client Sample Name: JPL-GW, MW-14-3, 11/6/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 22:52	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-10	Client Sample Name: JPL-GW, MW-14-3, 11/6/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 22:52	MGC	MS-V5	1	BVK0839



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505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221405-10	Client Sample Name: JPL-GW, MW-14-3, 11/6/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.5	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/13/12 10:31	LD1	IC6	1	BVK0869

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221405-10	Client Sample Name: JPL-GW, MW-14-3, 11/6/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/12	11/07/12 08:07	TDC	KONE-1	1	BVK0478
2	EPA-200.8	11/13/12	11/13/12 15:53	SRM	PE-EL2	1	BVK0927



Battelle MHTS
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-11	Client Sample Name: JPL-GW, MW-14-2, 11/6/2012 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.62	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.15	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.19	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	0.17	ug/L	0.50	0.15	EPA-524.2	ND	J	1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-11	Client Sample Name: JPL-GW, MW-14-2, 11/6/2012 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.44	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	4.0	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-11	Client Sample Name: JPL-GW, MW-14-2, 11/6/2012 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 23:15	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-11	Client Sample Name: JPL-GW, MW-14-2, 11/6/2012 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 23:15	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221405-11	Client Sample Name: JPL-GW, MW-14-2, 11/6/2012 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.1	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/12/12 21:29	LS1	IC6	1	BVK0869



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221405-11	Client Sample Name: JPL-GW, MW-14-2, 11/6/2012 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/12	11/07/12 08:07	TDC	KONE-1	1	BVK0478
2	EPA-200.8	11/13/12	11/13/12 15:56	SRM	PE-EL2	1	BVK0927



Battelle MHTS
505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-12	Client Sample Name: JPL-GW, MW-14-1, 11/6/2012 2:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.48	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.10	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-12	Client Sample Name: JPL-GW, MW-14-1, 11/6/2012 2:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.88	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.24	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.8	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221405-12	Client Sample Name: JPL-GW, MW-14-1, 11/6/2012 2:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 23:37	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221405-12	Client Sample Name: JPL-GW, MW-14-1, 11/6/2012 2:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 23:37	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221405-12	Client Sample Name: JPL-GW, MW-14-1, 11/6/2012 2:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.7	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/12/12	11/12/12 21:42	LS1	IC6	1	BVK0869



Battelle MHTS
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221405-12	Client Sample Name: JPL-GW, MW-14-1, 11/6/2012 2:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/07/12	11/07/12 08:07	TDC	KONE-1	1	BVK0478
2	EPA-200.8	11/13/12	11/13/12 15:59	SRM	PE-EL2	1	BVK0927



Battelle MHTS
505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0837						
Benzene	BVK0837-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK0837-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK0837-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK0837-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK0837-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK0837-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK0837-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK0837-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK0837-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK0837-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVK0837-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK0837-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK0837-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK0837-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK0837-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK0837-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK0837-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK0837-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK0837-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK0837-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK0837-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK0837-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK0837-BLK1	ND	ug/L	0.50	0.14	

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505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0837						
trans-1,3-Dichloropropene	BVK0837-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK0837-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK0837-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK0837-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK0837-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK0837-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK0837-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2-Tetrachloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK0837-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK0837-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK0837-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK0837-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK0837-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK0837-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK0837-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK0837-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK0837-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK0837-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK0837-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK0837-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK0837-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK0837-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK0837-BLK1	ND	ug/L	4.0	0.97	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVK0837

Ethyl t-butyl ether	BVK0837-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK0837-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK0837-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK0837-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK0837-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK0837-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK0837-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK0837-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK0837-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK0837-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK0837-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK0837-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK0837-BLK1	106	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK0837-BLK1	99.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK0837-BLK1	93.4	%	80 - 120 (LCL - UCL)		

QC Batch ID: BVK0839

Benzene	BVK0839-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK0839-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK0839-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK0839-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK0839-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK0839-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK0839-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK0839-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK0839-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK0839-BLK1	ND	ug/L	0.50	0.15	

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0839						
Dibromochloromethane	BVK0839-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK0839-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK0839-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK0839-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK0839-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK0839-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK0839-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK0839-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK0839-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK0839-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK0839-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK0839-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK0839-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BVK0839-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK0839-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK0839-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK0839-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK0839-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK0839-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK0839-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK0839-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK0839-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.19	

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505 King Ave.
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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0839						
1,1,1-Trichloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK0839-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK0839-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK0839-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK0839-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK0839-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK0839-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK0839-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK0839-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK0839-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK0839-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK0839-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK0839-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK0839-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK0839-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BVK0839-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK0839-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK0839-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK0839-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK0839-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK0839-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK0839-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK0839-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK0839-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK0839-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK0839-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK0839-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK0839-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK0839-BLK1	99.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK0839-BLK1	92.0	%	80 - 120 (LCL - UCL)		

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK0837										
Benzene	BVK0837-BS1	LCS	27.320	25.000	ug/L	109		70 - 130		
Bromodichloromethane	BVK0837-BS1	LCS	29.390	25.000	ug/L	118		70 - 130		
Chlorobenzene	BVK0837-BS1	LCS	25.590	25.000	ug/L	102		70 - 130		
Chloroethane	BVK0837-BS1	LCS	28.510	25.000	ug/L	114		70 - 130		
1,4-Dichlorobenzene	BVK0837-BS1	LCS	23.810	25.000	ug/L	95.2		70 - 130		
1,1-Dichloroethane	BVK0837-BS1	LCS	26.300	25.000	ug/L	105		70 - 130		
1,1-Dichloroethene	BVK0837-BS1	LCS	26.180	25.000	ug/L	105		70 - 130		
Toluene	BVK0837-BS1	LCS	27.630	25.000	ug/L	111		70 - 130		
Trichloroethene	BVK0837-BS1	LCS	25.920	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK0837-BS1	LCS	9.9100	10.000	ug/L	99.1		75 - 125		
Toluene-d8 (Surrogate)	BVK0837-BS1	LCS	10.150	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK0837-BS1	LCS	9.5200	10.000	ug/L	95.2		80 - 120		

QC Batch ID: BVK0839										
Benzene	BVK0839-BS1	LCS	24.560	25.000	ug/L	98.2		70 - 130		
Bromodichloromethane	BVK0839-BS1	LCS	26.610	25.000	ug/L	106		70 - 130		
Chlorobenzene	BVK0839-BS1	LCS	23.050	25.000	ug/L	92.2		70 - 130		
Chloroethane	BVK0839-BS1	LCS	25.700	25.000	ug/L	103		70 - 130		
1,4-Dichlorobenzene	BVK0839-BS1	LCS	22.040	25.000	ug/L	88.2		70 - 130		
1,1-Dichloroethane	BVK0839-BS1	LCS	23.550	25.000	ug/L	94.2		70 - 130		
1,1-Dichloroethene	BVK0839-BS1	LCS	23.470	25.000	ug/L	93.9		70 - 130		
Toluene	BVK0839-BS1	LCS	25.040	25.000	ug/L	100		70 - 130		
Trichloroethene	BVK0839-BS1	LCS	24.360	25.000	ug/L	97.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK0839-BS1	LCS	10.390	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BVK0839-BS1	LCS	10.090	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK0839-BS1	LCS	9.8600	10.000	ug/L	98.6		80 - 120		



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Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0837		Used client sample: Y - Description: MW-17-3, 11/07/2012 12:40								
Benzene	MS	1221549-10	ND	24.450	25.000	ug/L		97.8		70 - 130
	MSD	1221549-10	ND	24.150	25.000	ug/L	1.2	96.6	20	70 - 130
Bromodichloromethane	MS	1221549-10	ND	27.140	25.000	ug/L		109		70 - 130
	MSD	1221549-10	ND	27.490	25.000	ug/L	1.3	110	20	70 - 130
Chlorobenzene	MS	1221549-10	ND	23.790	25.000	ug/L		95.2		70 - 130
	MSD	1221549-10	ND	23.170	25.000	ug/L	2.6	92.7	20	70 - 130
Chloroethane	MS	1221549-10	ND	25.410	25.000	ug/L		102		70 - 130
	MSD	1221549-10	ND	25.270	25.000	ug/L	0.6	101	20	70 - 130
1,4-Dichlorobenzene	MS	1221549-10	ND	22.360	25.000	ug/L		89.4		70 - 130
	MSD	1221549-10	ND	21.940	25.000	ug/L	1.9	87.8	20	70 - 130
1,1-Dichloroethane	MS	1221549-10	ND	23.420	25.000	ug/L		93.7		70 - 130
	MSD	1221549-10	ND	23.110	25.000	ug/L	1.3	92.4	20	70 - 130
1,1-Dichloroethene	MS	1221549-10	ND	23.520	25.000	ug/L		94.1		70 - 130
	MSD	1221549-10	ND	23.000	25.000	ug/L	2.2	92.0	20	70 - 130
Toluene	MS	1221549-10	ND	25.380	25.000	ug/L		102		70 - 130
	MSD	1221549-10	ND	24.890	25.000	ug/L	1.9	99.6	20	70 - 130
Trichloroethene	MS	1221549-10	0.21000	24.000	25.000	ug/L		95.2		70 - 130
	MSD	1221549-10	0.21000	23.760	25.000	ug/L	1.0	94.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221549-10	ND	9.5600	10.000	ug/L		95.6		75 - 125
	MSD	1221549-10	ND	9.7700	10.000	ug/L	2.2	97.7		75 - 125
Toluene-d8 (Surrogate)	MS	1221549-10	ND	9.9800	10.000	ug/L		99.8		80 - 120
	MSD	1221549-10	ND	10.030	10.000	ug/L	0.5	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221549-10	ND	9.4100	10.000	ug/L		94.1		80 - 120
	MSD	1221549-10	ND	9.6700	10.000	ug/L	2.7	96.7		80 - 120
QC Batch ID: BVK0839		Used client sample: Y - Description: MW-22-2, 11/08/2012 09:30								
Benzene	MS	1221655-06	ND	24.890	25.000	ug/L		99.6		70 - 130
	MSD	1221655-06	ND	24.680	25.000	ug/L	0.8	98.7	20	70 - 130
Bromodichloromethane	MS	1221655-06	ND	27.860	25.000	ug/L		111		70 - 130
	MSD	1221655-06	ND	28.530	25.000	ug/L	2.4	114	20	70 - 130
Chlorobenzene	MS	1221655-06	ND	23.750	25.000	ug/L		95.0		70 - 130
	MSD	1221655-06	ND	23.580	25.000	ug/L	0.7	94.3	20	70 - 130
Chloroethane	MS	1221655-06	ND	25.990	25.000	ug/L		104		70 - 130
	MSD	1221655-06	ND	25.600	25.000	ug/L	1.5	102	20	70 - 130
1,4-Dichlorobenzene	MS	1221655-06	ND	22.590	25.000	ug/L		90.4		70 - 130
	MSD	1221655-06	ND	22.670	25.000	ug/L	0.4	90.7	20	70 - 130
1,1-Dichloroethane	MS	1221655-06	0.11000	24.120	25.000	ug/L		96.0		70 - 130
	MSD	1221655-06	0.11000	23.910	25.000	ug/L	0.9	95.2	20	70 - 130

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Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0839		Used client sample: Y - Description: MW-22-2, 11/08/2012 09:30								
1,1-Dichloroethene	MS	1221655-06	ND	23.740	25.000	ug/L		95.0		70 - 130
	MSD	1221655-06	ND	23.200	25.000	ug/L	2.3	92.8	20	70 - 130
Toluene	MS	1221655-06	ND	25.590	25.000	ug/L		102		70 - 130
	MSD	1221655-06	ND	25.860	25.000	ug/L	1.0	103	20	70 - 130
Trichloroethene	MS	1221655-06	0.19000	24.060	25.000	ug/L		95.5		70 - 130
	MSD	1221655-06	0.19000	24.470	25.000	ug/L	1.7	97.1	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221655-06	ND	10.070	10.000	ug/L		101		75 - 125
	MSD	1221655-06	ND	9.7500	10.000	ug/L	3.2	97.5		75 - 125
Toluene-d8 (Surrogate)	MS	1221655-06	ND	9.9800	10.000	ug/L		99.8		80 - 120
	MSD	1221655-06	ND	9.9900	10.000	ug/L	0.1	99.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221655-06	ND	9.6300	10.000	ug/L		96.3		80 - 120
	MSD	1221655-06	ND	9.5500	10.000	ug/L	0.8	95.5		80 - 120



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
-------------	--------------	-----------	-------	-----	-----	-----------

QC Batch ID: BVK0837

Chloroacetonitrile	BVK0837-BLK1	0	ug/L			
1-Chlorobutane	BVK0837-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK0837-BLK1	0	ug/L			
Methyl acrylate	BVK0837-BLK1	0	ug/L			
Nitrobenzene	BVK0837-BLK1	0	ug/L			
2-Nitropropane	BVK0837-BLK1	0	ug/L			

QC Batch ID: BVK0839

Chloroacetonitrile	BVK0839-BLK1	0	ug/L			
1-Chlorobutane	BVK0839-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK0839-BLK1	0	ug/L			
Methyl acrylate	BVK0839-BLK1	0	ug/L			
Nitrobenzene	BVK0839-BLK1	0	ug/L			
2-Nitropropane	BVK0839-BLK1	0	ug/L			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0869						
Perchlorate	BVK0869-BLK1	ND	ug/L	4.0	0.81	



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK0869										
Perchlorate	BVK0869-BS1	LCS	10.374	10.000	ug/L	104		85	115	



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK0869		Used client sample: Y - Description: EB-2-110612, 11/06/2012 08:20								
Perchlorate	DUP	1221405-03	ND	ND		ug/L			15	
	MS	1221405-03	ND	10.765	10.101	ug/L		107		80 - 120
	MSD	1221405-03	ND	10.862	10.101	ug/L	0.9	108	15	80 - 120



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0478						
Hexavalent Chromium	BVK0478-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK0828						
Total Recoverable Chromium	BVK0828-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BVK0829						
Total Recoverable Chromium	BVK0829-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BVK0927						
Total Recoverable Chromium	BVK0927-BLK1	ND	ug/L	3.0	0.50	



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVK0478											
Hexavalent Chromium	BVK0478-BS1	LCS	0.047869	0.050000	mg/L	95.7		85	115		
QC Batch ID: BVK0828											
Total Recoverable Chromium	BVK0828-BS1	LCS	43.234	40.000	ug/L	108		85	115		
QC Batch ID: BVK0829											
Total Recoverable Chromium	BVK0829-BS1	LCS	40.490	40.000	ug/L	101		85	115		
QC Batch ID: BVK0927											
Total Recoverable Chromium	BVK0927-BS1	LCS	41.926	40.000	ug/L	105		85	115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0478		Used client sample: Y - Description: EB-2-110612, 11/06/2012 08:20								
Hexavalent Chromium	DUP	1221405-03	ND	ND		mg/L			10	
	MS	1221405-03	ND	0.050846	0.052632	mg/L		96.6		85 - 115
	MSD	1221405-03	ND	0.050625	0.052632	mg/L	0.4	96.2	10	85 - 115
QC Batch ID: BVK0828		Used client sample: Y - Description: EB-2-110612, 11/06/2012 08:20								
Total Recoverable Chromium	DUP	1221405-03	ND	ND		ug/L			20	
	MS	1221405-03	ND	42.269	40.000	ug/L		106		70 - 130
	MSD	1221405-03	ND	42.119	40.000	ug/L	0.4	105	20	70 - 130
QC Batch ID: BVK0829		Used client sample: Y - Description: MW-20-1, 11/05/2012 11:25								
Total Recoverable Chromium	DUP	1221275-07	ND	ND		ug/L			20	
	MS	1221275-07	ND	38.750	40.000	ug/L		96.9		70 - 130
	MSD	1221275-07	ND	41.210	40.000	ug/L	6.2	103	20	70 - 130
QC Batch ID: BVK0927		Used client sample: N								
Total Recoverable Chromium	DUP	1221683-01	0.53800	0.93100		ug/L	53.5		20	J,A02
	MS	1221683-01	0.53800	42.264	40.000	ug/L		104		70 - 130
	MSD	1221683-01	0.53800	42.959	40.000	ug/L	1.6	106	20	70 - 130

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 16:01
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A02 The difference between duplicate readings is less than the PQL.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/21/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1221549

Invoice ID: B134603

Enclosed are the results of analyses for samples received by the laboratory on 11/7/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form

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Required Fields

Report To: Battelle MHTS
 Client: David Conner
 Attn: David Conner
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone: 614 | 424 - 5489 Fax: 614 | 458 - 5489
 Email Address: connerd@battelle.org
 Submission #: 1221549

Project Description: JPL-GW Monitoring
 Project Code: 4Q12
 Sampler(s): Blaine Tech

Analysis Requested:
 Nitrite 353.2
 Orthophosphate 365.1
 Chloride Nitrate Sulfate
 Hexavalent Cr6 -7196 (mg/L)
 Perchlorate 314.0
 Total Chromium 200.8 (ug/L)
 VOCs EPA 524.2

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-3-110112	11-7-12	0730	AQ
-2	EB-3-110112		0740	
-3	MW-1B-5		0805	
-4	MW-1B-4		0840	
-5	MW-1B-3		0910	
-6	MW-1B-2		0945	
-7	MW-1B-1		1020	
-8	MW-17-5		1130	
-9	MW-17-4		1200	
-10	MW-17-3		1240	
-11	MW-17-2		1320	✓

Notes: Level IV, MS/MSD, Distribution, SUB-OUT

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush, 48 Hr Rush, 3-5 Day Rush, Normal (10 - Days)

Lab TAT Approval: _____

Global ID: _____

Cost Center: _____

Comments: MBU Site, CVX RCRA, Geotracker 5 File (CA Default), Geotracker 2 File, Other (Specify)

PLEASE NOTE: WHICH SAMPLES TO USE FOR QC (MS/MSD) are level III and level IV CLP

Relinquished By: [Signature] Date: 11-7-12 Time: 1545
 Relinquished By: [Signature] Date: 11-7-12 Time: 1610
 Relinquished By: [Signature] Date: 11-7-12 Time: 1945

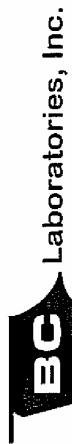
BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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Page 2 of 2

Chain of Custody Form



*Required Fields

Report To: Battelle MHTS Client: David Conner Attn: David Conner Street Address: 505 King Ave. City: Columbus State: OH Zip: 43201 Phone: 614 424 5489 Fax: 614 458 5489 Email Address: connerd@battelle.org		Project Description: JPL-GW Monitoring Project Code: 4Q12 Sampler (s): Blaine Tech		Billing Client: SAME Attn: Address: City: State: Zip: Are there any tests with holding times? less than or equal to 48 hours? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *Standard Turnaround = 30	
Analysis Requested VOCs EPA 524.2 Total Chromium 200.8 (ug/L) Perchlorate 314.0 Hexavalent Cr6 7196 (mg/L) Chloride, Nitrate, Sulfate Orthophosphate 365.1 Nitrite 353.2		Notes			
Submission #: 12-21549 Sample # 12 MW-17-1	Date 11-7-12 Time 1355 Matrix AG				
Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other					
Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)					
Lab TAT Approval:					
Comments: *****PLEASE NOTE WHICH SAMPLES TO USE FOR QC (MS/MSD)***** *****Also, please indicate which samples are level III and level IV CLP*****		Global ID: 1. Relinquished By: [Signature] Date: 11-7-12 Time: 1545 2. Relinquished By: [Signature] Date: 11-7-12 Time: 1610 3. Relinquished By: [Signature] Date: 11-7-12 Time: 1945			

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1221549 Page 3 of 4

Submission #: 12-21549

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: QTR Thermometer ID: 207 Date/Time 11-7-12
 Temperature: (A) 3.5 °C / (C) 3.7 °C Analyst Init JWJ 2000

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	B
PT PEUN/PRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PA BIENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A.3	A.3	A.3	A.3	A.3	A.4	A.3	A.3	A.4
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ JAR										
32 OZ JAR										
SOILSLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: JWJ Date/Time: 11/7/12 2130
 A = Actual C = Collected

15:34 MyHDS WordPerfect 6.0 100% 2012/11/07 15:34:00



Chain of Custody and Cooler Receipt Form for 1221549 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 2 of 2

Submission #: 12-21549

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: OTC Thermometer ID: 207 Date/Time: 11-7-12
 Temperature: (A) 3.5 °C / (C) 3.7 °C Analyst Init: JWW 2000

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	11	12	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B	B								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3								
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL 504										
QT EPA 508/608/6080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ JAR										
32 OZ JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERRIC IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: JWW Date/Time: 11/7/12 2130
 A = Actual / C = Corrected



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221549-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-3-110712 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 07:30 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-3-110712 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221549-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-3-110712 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 07:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-3-110712 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221549-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 08:05 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221549-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 08:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221549-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 09:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221549-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 09:45 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221549-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 10:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221549-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221549-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221549-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 12:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221549-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 13:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221549-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/07/2012 19:45 Sampling Date: 11/07/2012 13:55 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-01	Client Sample Name: JPL-GW, TB-3-110712, 11/7/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-01	Client Sample Name: JPL-GW, TB-3-110712, 11/7/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-01	Client Sample Name: JPL-GW, TB-3-110712, 11/7/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 10:54	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-01	Client Sample Name: JPL-GW, TB-3-110712, 11/7/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 10:54	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-02	Client Sample Name: JPL-GW, EB-3-110712, 11/7/2012 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-02	Client Sample Name: JPL-GW, EB-3-110712, 11/7/2012 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-02	Client Sample Name: JPL-GW, EB-3-110712, 11/7/2012 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 11:17	MGC	MS-V5	1	BVK0837

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-02	Client Sample Name: JPL-GW, EB-3-110712, 11/7/2012 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 11:17	MGC	MS-V5	1	BVK0837

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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-02	Client Sample Name: JPL-GW, EB-3-110712, 11/7/2012 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 09:36	LD1	IC6	1	BVK1112



Battelle MHTS
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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-02	Client Sample Name: JPL-GW, EB-3-110712, 11/7/2012 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/07/12	11/07/12 22:06	TDC	KONE-1	1	BVK0692
2	EPA-200.8	11/14/12	11/14/12 15:44	SRM	PE-EL2	1	BVK1019



Battelle MHTS
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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-03	Client Sample Name: JPL-GW, MW-18-5, 11/7/2012 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-03	Client Sample Name: JPL-GW, MW-18-5, 11/7/2012 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.070	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-03	Client Sample Name: JPL-GW, MW-18-5, 11/7/2012 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 11:39	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-03	Client Sample Name: JPL-GW, MW-18-5, 11/7/2012 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 11:39	MGC	MS-V5	1	BVK0837



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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-03	Client Sample Name: JPL-GW, MW-18-5, 11/7/2012 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 09:50	LD1	IC6	1	BVK1112



Battelle MHTS
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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-03	Client Sample Name: JPL-GW, MW-18-5, 11/7/2012 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/07/12	11/07/12 22:09	TDC	KONE-1	1	BVK0692
2	EPA-200.8	11/14/12	11/14/12 15:47	SRM	PE-EL2	1	BVK1019



Battelle MHTS
505 King Ave.
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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-04	Client Sample Name: JPL-GW, MW-18-4, 11/7/2012 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	1.7	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.61	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-04	Client Sample Name: JPL-GW, MW-18-4, 11/7/2012 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.67	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.69	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-04	Client Sample Name: JPL-GW, MW-18-4, 11/7/2012 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 12:02	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-04	Client Sample Name: JPL-GW, MW-18-4, 11/7/2012 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 12:02	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-04	Client Sample Name: JPL-GW, MW-18-4, 11/7/2012 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	11	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 10:03	LD1	IC6	1	BVK1112



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-04	Client Sample Name: JPL-GW, MW-18-4, 11/7/2012 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0018	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/07/12	11/07/12 22:09	TDC	KONE-1	1	BVK0692
2	EPA-200.8	11/14/12	11/14/12 15:50	SRM	PE-EL2	1	BVK1019



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-05	Client Sample Name: JPL-GW, MW-18-3, 11/7/2012 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	9.4	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	1.7	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-05	Client Sample Name: JPL-GW, MW-18-3, 11/7/2012 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.14	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.2	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.21	ug/L	0.50	0.15	EPA-524.2	ND	J	1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-05	Client Sample Name: JPL-GW, MW-18-3, 11/7/2012 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 12:24	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-05	Client Sample Name: JPL-GW, MW-18-3, 11/7/2012 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 12:24	MGC	MS-V5	1	BVK0837

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-05	Client Sample Name: JPL-GW, MW-18-3, 11/7/2012 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	54	ug/L	20	4.0	EPA-314.0	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 14:29	LD1	IC6	5	BVK1112



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-05	Client Sample Name: JPL-GW, MW-18-3, 11/7/2012 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0020	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/08/12 08:34	TDC	KONE-1	1	BVK0694
2	EPA-200.8	11/14/12	11/14/12 15:53	SRM	PE-EL2	1	BVK1019



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-06	Client Sample Name: JPL-GW, MW-18-2, 11/7/2012 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-06	Client Sample Name: JPL-GW, MW-18-2, 11/7/2012 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-06	Client Sample Name: JPL-GW, MW-18-2, 11/7/2012 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 12:47	MGC	MS-V5	1	BVK0837

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505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-06	Client Sample Name: JPL-GW, MW-18-2, 11/7/2012 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 12:47	MGC	MS-V5	1	BVK0837

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Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-06	Client Sample Name: JPL-GW, MW-18-2, 11/7/2012 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 10:30	LD1	IC6	1	BVK1112



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-06	Client Sample Name: JPL-GW, MW-18-2, 11/7/2012 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/08/12	11/08/12 08:17	TDC	KONE-1	1	BVK0694
2	EPA-200.8	11/14/12	11/14/12 15:56	SRM	PE-EL2	1	BVK1019



Battelle MHTS
505 King Ave.
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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-07	Client Sample Name: JPL-GW, MW-18-1, 11/7/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-07	Client Sample Name: JPL-GW, MW-18-1, 11/7/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-07	Client Sample Name: JPL-GW, MW-18-1, 11/7/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 13:09	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-07	Client Sample Name: JPL-GW, MW-18-1, 11/7/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 13:09	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-07	Client Sample Name: JPL-GW, MW-18-1, 11/7/2012 10:20:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 10:43	LD1	IC6	1	BVK1112



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-07	Client Sample Name: JPL-GW, MW-18-1, 11/7/2012 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/08/12	11/08/12 08:17	TDC	KONE-1	1	BVK0694
2	EPA-200.8	11/14/12	11/14/12 15:59	SRM	PE-EL2	1	BVK1019



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-08	Client Sample Name: JPL-GW, MW-17-5, 11/7/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-08	Client Sample Name: JPL-GW, MW-17-5, 11/7/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.57	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-08	Client Sample Name: JPL-GW, MW-17-5, 11/7/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 13:31	MGC	MS-V5	1	BVK0837



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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-08	Client Sample Name: JPL-GW, MW-17-5, 11/7/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 13:31	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-08	Client Sample Name: JPL-GW, MW-17-5, 11/7/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 10:56	LD1	IC6	1	BVK1112



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-08	Client Sample Name: JPL-GW, MW-17-5, 11/7/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/08/12	11/08/12 08:17	TDC	KONE-1	1	BVK0694
2	EPA-200.8	11/14/12	11/14/12 16:02	SRM	PE-EL2	1	BVK1019



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-09	Client Sample Name: JPL-GW, MW-17-4, 11/7/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.25	ug/L	0.50	0.18	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.24	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-09	Client Sample Name: JPL-GW, MW-17-4, 11/7/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.49	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-09	Client Sample Name: JPL-GW, MW-17-4, 11/7/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 13:54	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-09	Client Sample Name: JPL-GW, MW-17-4, 11/7/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 13:54	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-09	Client Sample Name: JPL-GW, MW-17-4, 11/7/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.6	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 11:09	LD1	IC6	1	BVK1112



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-09	Client Sample Name: JPL-GW, MW-17-4, 11/7/2012 12:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0016	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/08/12 08:21	TDC	KONE-1	1	BVK0694
2	EPA-200.8	11/14/12	11/14/12 16:05	SRM	PE-EL2	1	BVK1019



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-10	Client Sample Name: JPL-GW, MW-17-3, 11/7/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.21	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-10	Client Sample Name: JPL-GW, MW-17-3, 11/7/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.21	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-10	Client Sample Name: JPL-GW, MW-17-3, 11/7/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 08:40	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-10	Client Sample Name: JPL-GW, MW-17-3, 11/7/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 08:40	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-10	Client Sample Name: JPL-GW, MW-17-3, 11/7/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.1	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 11:49	LD1	IC6	1	BVK1112



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-10	Client Sample Name: JPL-GW, MW-17-3, 11/7/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/08/12	11/08/12 08:17	TDC	KONE-1	1	BVK0694
2	EPA-200.8	11/14/12	11/14/12 15:19	SRM	PE-EL2	1	BVK1019



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-11	Client Sample Name: JPL-GW, MW-17-2, 11/7/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.15	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-11	Client Sample Name: JPL-GW, MW-17-2, 11/7/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.10	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-11	Client Sample Name: JPL-GW, MW-17-2, 11/7/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 14:16	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-11	Client Sample Name: JPL-GW, MW-17-2, 11/7/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 14:16	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-11	Client Sample Name: JPL-GW, MW-17-2, 11/7/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	7.8	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 13:09	LD1	IC6	1	BVK1112



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-11	Client Sample Name: JPL-GW, MW-17-2, 11/7/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/08/12	11/08/12 08:21	TDC	KONE-1	1	BVK0694
2	EPA-200.8	11/14/12	11/14/12 16:08	SRM	PE-EL2	1	BVK1019

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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-12	Client Sample Name: JPL-GW, MW-17-1, 11/7/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-12	Client Sample Name: JPL-GW, MW-17-1, 11/7/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221549-12	Client Sample Name: JPL-GW, MW-17-1, 11/7/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 14:39	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221549-12	Client Sample Name: JPL-GW, MW-17-1, 11/7/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 14:39	MGC	MS-V5	1	BVK0837



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221549-12	Client Sample Name: JPL-GW, MW-17-1, 11/7/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/14/12	11/14/12 13:22	LD1	IC6	1	BVK1113



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221549-12	Client Sample Name: JPL-GW, MW-17-1, 11/7/2012 1:55:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/08/12	11/08/12 08:21	TDC	KONE-1	1	BVK0694
2	EPA-200.8	11/14/12	11/14/12 16:52	SRM	PE-EL2	1	BVK1021



Battelle MHTS
505 King Ave.
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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVK0837

Benzene	BVK0837-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK0837-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK0837-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK0837-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK0837-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK0837-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK0837-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK0837-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK0837-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK0837-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVK0837-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK0837-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK0837-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK0837-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK0837-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK0837-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK0837-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK0837-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK0837-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK0837-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK0837-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK0837-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK0837-BLK1	ND	ug/L	0.50	0.14	

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505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0837						
trans-1,3-Dichloropropene	BVK0837-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK0837-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK0837-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK0837-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK0837-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK0837-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK0837-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK0837-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK0837-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK0837-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK0837-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK0837-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK0837-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK0837-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK0837-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK0837-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK0837-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK0837-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK0837-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK0837-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK0837-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK0837-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK0837-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK0837-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK0837-BLK1	ND	ug/L	4.0	0.97	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0837						
Ethyl t-butyl ether	BVK0837-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK0837-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK0837-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK0837-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK0837-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK0837-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK0837-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK0837-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK0837-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK0837-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK0837-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK0837-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK0837-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK0837-BLK1	106	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK0837-BLK1	99.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK0837-BLK1	93.4	%	80 - 120 (LCL - UCL)		



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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK0837										
Benzene	BVK0837-BS1	LCS	27.320	25.000	ug/L	109		70 - 130		
Bromodichloromethane	BVK0837-BS1	LCS	29.390	25.000	ug/L	118		70 - 130		
Chlorobenzene	BVK0837-BS1	LCS	25.590	25.000	ug/L	102		70 - 130		
Chloroethane	BVK0837-BS1	LCS	28.510	25.000	ug/L	114		70 - 130		
1,4-Dichlorobenzene	BVK0837-BS1	LCS	23.810	25.000	ug/L	95.2		70 - 130		
1,1-Dichloroethane	BVK0837-BS1	LCS	26.300	25.000	ug/L	105		70 - 130		
1,1-Dichloroethene	BVK0837-BS1	LCS	26.180	25.000	ug/L	105		70 - 130		
Toluene	BVK0837-BS1	LCS	27.630	25.000	ug/L	111		70 - 130		
Trichloroethene	BVK0837-BS1	LCS	25.920	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK0837-BS1	LCS	9.9100	10.000	ug/L	99.1		75 - 125		
Toluene-d8 (Surrogate)	BVK0837-BS1	LCS	10.150	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK0837-BS1	LCS	9.5200	10.000	ug/L	95.2		80 - 120		



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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery		Lab Quals
								RPD	Percent	
QC Batch ID: BVK0837		Used client sample: Y - Description: MW-17-3, 11/07/2012 12:40								
Benzene	MS	1221549-10	ND	24.450	25.000	ug/L		97.8		70 - 130
	MSD	1221549-10	ND	24.150	25.000	ug/L	1.2	96.6	20	70 - 130
Bromodichloromethane	MS	1221549-10	ND	27.140	25.000	ug/L		109		70 - 130
	MSD	1221549-10	ND	27.490	25.000	ug/L	1.3	110	20	70 - 130
Chlorobenzene	MS	1221549-10	ND	23.790	25.000	ug/L		95.2		70 - 130
	MSD	1221549-10	ND	23.170	25.000	ug/L	2.6	92.7	20	70 - 130
Chloroethane	MS	1221549-10	ND	25.410	25.000	ug/L		102		70 - 130
	MSD	1221549-10	ND	25.270	25.000	ug/L	0.6	101	20	70 - 130
1,4-Dichlorobenzene	MS	1221549-10	ND	22.360	25.000	ug/L		89.4		70 - 130
	MSD	1221549-10	ND	21.940	25.000	ug/L	1.9	87.8	20	70 - 130
1,1-Dichloroethane	MS	1221549-10	ND	23.420	25.000	ug/L		93.7		70 - 130
	MSD	1221549-10	ND	23.110	25.000	ug/L	1.3	92.4	20	70 - 130
1,1-Dichloroethene	MS	1221549-10	ND	23.520	25.000	ug/L		94.1		70 - 130
	MSD	1221549-10	ND	23.000	25.000	ug/L	2.2	92.0	20	70 - 130
Toluene	MS	1221549-10	ND	25.380	25.000	ug/L		102		70 - 130
	MSD	1221549-10	ND	24.890	25.000	ug/L	1.9	99.6	20	70 - 130
Trichloroethene	MS	1221549-10	0.21000	24.000	25.000	ug/L		95.2		70 - 130
	MSD	1221549-10	0.21000	23.760	25.000	ug/L	1.0	94.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221549-10	ND	9.5600	10.000	ug/L		95.6		75 - 125
	MSD	1221549-10	ND	9.7700	10.000	ug/L	2.2	97.7		75 - 125
Toluene-d8 (Surrogate)	MS	1221549-10	ND	9.9800	10.000	ug/L		99.8		80 - 120
	MSD	1221549-10	ND	10.030	10.000	ug/L	0.5	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221549-10	ND	9.4100	10.000	ug/L		94.1		80 - 120
	MSD	1221549-10	ND	9.6700	10.000	ug/L	2.7	96.7		80 - 120

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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0837						
Chloroacetonitrile	BVK0837-BLK1	0	ug/L			
1-Chlorobutane	BVK0837-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK0837-BLK1	0	ug/L			
Methyl acrylate	BVK0837-BLK1	0	ug/L			
Nitrobenzene	BVK0837-BLK1	0	ug/L			
2-Nitropropane	BVK0837-BLK1	0	ug/L			



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Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1112						
Perchlorate	BVK1112-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: BVK1113						
Perchlorate	BVK1113-BLK1	ND	ug/L	4.0	0.81	



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Reported: 11/21/2012 9:53
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Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1112										
Perchlorate	BVK1112-BS1	LCS	10.458	10.000	ug/L	105		85	115	
QC Batch ID: BVK1113										
Perchlorate	BVK1113-BS1	LCS	11.193	10.000	ug/L	112		85	115	



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Reported: 11/21/2012 9:53
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Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK1112		Used client sample: Y - Description: MW-17-3, 11/07/2012 12:40								
Perchlorate	DUP	1221549-10	5.1463	5.1728		ug/L	0.5		15	
	MS	1221549-10	5.1463	14.818	10.101	ug/L		95.7		80 - 120
	MSD	1221549-10	5.1463	14.315	10.101	ug/L	3.4	90.8	15	80 - 120
QC Batch ID: BVK1113		Used client sample: N								
Perchlorate	DUP	1221824-01	5.1392	5.3073		ug/L	3.2		15	
	MS	1221824-01	5.1392	13.875	10.101	ug/L		86.5		80 - 120
	MSD	1221824-01	5.1392	13.926	10.101	ug/L	0.4	87.0	15	80 - 120

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Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0692						
Hexavalent Chromium	BVK0692-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK0694						
Hexavalent Chromium	BVK0694-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1019						
Total Recoverable Chromium	BVK1019-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BVK1021						
Total Recoverable Chromium	BVK1021-BLK1	ND	ug/L	3.0	0.50	



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Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVK0692											
Hexavalent Chromium	BVK0692-BS1	LCS	0.048822	0.050000	mg/L	97.6		85	115		
QC Batch ID: BVK0694											
Hexavalent Chromium	BVK0694-BS1	LCS	0.049696	0.050000	mg/L	99.4		85	115		
QC Batch ID: BVK1019											
Total Recoverable Chromium	BVK1019-BS1	LCS	42.020	40.000	ug/L	105		85	115		
QC Batch ID: BVK1021											
Total Recoverable Chromium	BVK1021-BS1	LCS	44.176	40.000	ug/L	110		85	115		

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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0692		Used client sample: N								
Hexavalent Chromium	DUP	1221548-10	0.0013740	0.0013670		mg/L	0.5		10	J
	MS	1221548-10	0.0013740	0.046161	0.052632	mg/L		85.1	85 - 115	
	MSD	1221548-10	0.0013740	0.050036	0.052632	mg/L	8.1	92.5	10	85 - 115
QC Batch ID: BVK0694		Used client sample: Y - Description: MW-17-3, 11/07/2012 12:40								
Hexavalent Chromium	DUP	1221549-10	ND	ND		mg/L			10	
	MS	1221549-10	ND	0.058936	0.052632	mg/L		112	85 - 115	
	MSD	1221549-10	ND	0.058514	0.052632	mg/L	0.7	111	10	85 - 115
QC Batch ID: BVK1019		Used client sample: Y - Description: MW-17-3, 11/07/2012 12:40								
Total Recoverable Chromium	DUP	1221549-10	ND	ND		ug/L			20	
	MS	1221549-10	ND	41.822	40.000	ug/L		105	70 - 130	
	MSD	1221549-10	ND	41.331	40.000	ug/L	1.2	103	20	70 - 130
QC Batch ID: BVK1021		Used client sample: Y - Description: MW-22-2, 11/08/2012 09:30								
Total Recoverable Chromium	DUP	1221655-06	1.4100	1.3080		ug/L	7.5		20	J
	MS	1221655-06	1.4100	43.142	40.000	ug/L		104	70 - 130	
	MSD	1221655-06	1.4100	41.683	40.000	ug/L	3.4	101	20	70 - 130

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Reported: 11/21/2012 9:53
Project: JPL- GW Monitoring Wells
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Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/26/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1221655

Invoice ID: B134648

Enclosed are the results of analyses for samples received by the laboratory on 11/8/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form

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***Required Fields**

Report To: **Battelle MHTS**
 Client: **David Conner**
 Attn: **David Conner**
 Street Address: **505 King Ave.**
 City: **Columbus** State: **OH** Zip: **43201**
 Phone: **614 424 5489** Fax: **614 458 5489**
 Email Address: **connerd@battelle.org**
 Submission #: **12-21055**

Project Description: **JPL-GW Monitoring**
 Project Code: **4C12**
 Sampler(s): **Blaine Tech**

Billing: Client: **SAME**
 Attn:
 Address:
 City: State: Zip:
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Analysis Requested:
 VOCs EPA 524.2 Nitrite 353.2
 Hexavalent Cr6 -7196 (mg/L) Orthophosphate 365.1
 Perchlorate 314.0 Chloride, Nitrate, Sulfate
 Total Chromium 200.8 (ug/L)

Sample #	Sample Description	Date	Time	Matrix*
-1	TR-4-11081Z	11-8-12	0630	AQ
-2	ER-4-11081Z		0700	
-3	MW-22-5		0735	
-4	MW-22-4		0810	
-5	MW-22-3		0850	
-6	MW-22-2		0930	
-7	MW-22-1		1010	
-8	MW-4-5		1130	
-9	MW-4-4		1200	
-10	MW-4-3		1240	
-11	MW-4-2		1315	

Notes:
 THY BY DISTRIBUTION
 11/23/12
 11/23/12
 SUB-OUT
 MS/MSD
 MS/MSD
 SHORT HOLDING TIME
 CR+6 NO₃ NO₂ OP SS
 DO Cl₂ ROD MRAS COT

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other
 Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)
 Lab TAT Approval: _____ *Additional Charges May Apply

Global ID:
 1. Relinquished By: **Michael (SC)** Date: **11/8/12** Time: **1530**
 2. Relinquished By: **Michael (SC)** Date: **11/8/12** Time: **1540**
 3. Relinquished By: **Korn** Date: **11-8-12** Time: **1945**

Cost Center:
 1. Relinquished By: **Michael (SC)** Date: **11-8-12** Time: **1530**
 2. Relinquished By: **Michael (SC)** Date: **11/8/12** Time: **1540**
 3. Relinquished By: **Korn** Date: **11-8-12** Time: **1945**

Comments:
 MBU Site
 CVX RCRA
 Geotracker 5 File (CA Default)
 Geotracker 2 File
 Other (Specify) _____
 *****PLEASE NOTE THAT WHICH SAMPLES TO USE FOR QC (MS/MSD)*****
 *****Also, please indicate which samples are level III and level IV CLP*****

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com



Chain of Custody Form

BC Laboratories, Inc.

Page 2 of 2

*** Required Fields**

Report To: Client: Battelle MHTS Attn: David Conner Street Address: 505 King Ave. City: Columbus State: OH Zip: 43201 Phone#: 614 424 - 5489 Fax#: 614 458 - 5489 Email Address: connerd@battelle.org		Project Description: JPL-GW Monitoring Project Code: 4Q12 Sampler (s): Blaine Tech		Billing Client: SAME Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Are there any tests with holding times? less than or equal to 48 hours? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *Standard Turnaround = 10	
Submission #: 12-21655 Sample # 712 MW-4-1		Analysis Requested VOCs EPA 524.2 <input checked="" type="checkbox"/> X Total Chromium 200.8 (ug/L) <input checked="" type="checkbox"/> X Perchlorate 314.0 <input checked="" type="checkbox"/> X Hexavalent Cr6 -7196 (mg/L) <input checked="" type="checkbox"/> X Chloride, Nitrate, Sulfate <input type="checkbox"/> Orthophosphate 365.1 <input type="checkbox"/> Nitrite 353.2 <input type="checkbox"/>			
Matrix Types: <input type="checkbox"/> S = Soil <input type="checkbox"/> SL = Sludge <input type="checkbox"/> DW = Drinking Water <input type="checkbox"/> WW = Wastewater <input type="checkbox"/> GW = Groundwater <input type="checkbox"/> L = Liquid <input type="checkbox"/> M = Miscellaneous <input type="checkbox"/> O = Other		Turnaround # of working days: <input type="checkbox"/> 24 Hr Rush <input type="checkbox"/> 48 Hr Rush <input type="checkbox"/> 3-5 Day Rush <input checked="" type="checkbox"/> Normal (10 - Days)			
Lab TAT Approval: _____ * Additional Charges May Apply		Global ID: _____ Cost Center: 1. Relinquished By: _____ Date: 11-8-17 Time: 1530 2. Relinquished By: Nicole (ESC) Date: 11/8/12 Time: 1540 3. Relinquished By: Kon Date: 11-8-12 Time: 1945			
Comments: *****PLEASE NOTE WHICH SAMPLES TO USE FOR QC (MS/MSD)***** *****Also, please indicate which samples are level III and level IV CLP*****		MBU site <input type="checkbox"/> CVX RCRA Geotracker 5 File (CA Default) <input type="checkbox"/> Geotracker 2 File <input type="checkbox"/> Other (Specify) _____			

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 2

Submission #: 12-21055

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.95 Container: 04PE Thermometer ID: 207 Date/Time 11-8-12
 Temperature: (A) 4.6 °C / (C) 4.8 °C Analyst Init JNW 1945

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A13	A13	A13	A13	A14	A13	A13	A13	A14
QT EPA 413.1, 413.2, 418.1										
PT ODDR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERRIC IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 11/8/12 2100
 A = Actual / C = Corrected



Chain of Custody and Cooler Receipt Form for 1221655 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 2 Of 2

Submission #: 12-21655

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.95 Container: QPR Thermometer ID: 207 Date/Time 11-8-12
 Temperature: (A) 4.6 °C / (C) 4.8 °C Analyst Init JWW 1945

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B	B								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTa PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A.3	A.3								
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 348										
QT EPA 349										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERRIC IRON										
ENCORE										
SMART EFF										

Comments: _____
 Sample Numbering Completed By: JWW Date/Time: 11/8/12 2:00
 = Actual / C = Corrected



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221655-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-4-110812 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 06:30 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-4-110812 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221655-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-4-110812 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-4-110812 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221655-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 07:35 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221655-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 08:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221655-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 08:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221655-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221655-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 10:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221655-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1221655-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221655-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 12:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1221655-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 13:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1221655-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/08/2012 19:45 Sampling Date: 11/08/2012 13:55 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-01	Client Sample Name: JPL-GW, TB-4-110812, 11/8/2012 6:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-01	Client Sample Name: JPL-GW, TB-4-110812, 11/8/2012 6:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-01	Client Sample Name: JPL-GW, TB-4-110812, 11/8/2012 6:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 00:00	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-01	Client Sample Name: JPL-GW, TB-4-110812, 11/8/2012 6:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 00:00	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-02	Client Sample Name: JPL-GW, EB-4-110812, 11/8/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-02	Client Sample Name: JPL-GW, EB-4-110812, 11/8/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-02	Client Sample Name: JPL-GW, EB-4-110812, 11/8/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 00:22	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-02	Client Sample Name: JPL-GW, EB-4-110812, 11/8/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 00:22	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-02	Client Sample Name: JPL-GW, EB-4-110812, 11/8/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 20:15	LS1	IC6	1	BVK1207



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-02	Client Sample Name: JPL-GW, EB-4-110812, 11/8/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.72	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/08/12	11/08/12 22:07	TDC	KONE-1	1	BVK0715
2	EPA-200.8	11/14/12	11/14/12 16:55	SRM	PE-EL2	1	BVK1021

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-03	Client Sample Name: JPL-GW, MW-22-5, 11/8/2012 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-03	Client Sample Name: JPL-GW, MW-22-5, 11/8/2012 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-03	Client Sample Name: JPL-GW, MW-22-5, 11/8/2012 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 00:45	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-03	Client Sample Name: JPL-GW, MW-22-5, 11/8/2012 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 00:45	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-03	Client Sample Name: JPL-GW, MW-22-5, 11/8/2012 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 20:29	LS1	IC6	1	BVK1207



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-03	Client Sample Name: JPL-GW, MW-22-5, 11/8/2012 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/08/12 22:07	TDC	KONE-1	1	BVK0715
2	EPA-200.8	11/14/12	11/14/12 16:58	SRM	PE-EL2	1	BVK1021



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-04	Client Sample Name: JPL-GW, MW-22-4, 11/8/2012 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-04	Client Sample Name: JPL-GW, MW-22-4, 11/8/2012 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-04	Client Sample Name: JPL-GW, MW-22-4, 11/8/2012 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 01:07	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-04	Client Sample Name: JPL-GW, MW-22-4, 11/8/2012 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 01:07	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-04	Client Sample Name: JPL-GW, MW-22-4, 11/8/2012 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 20:42	LS1	IC6	1	BVK1207



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-04	Client Sample Name: JPL-GW, MW-22-4, 11/8/2012 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0020	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/08/12 22:07	TDC	KONE-1	1	BVK0715
2	EPA-200.8	11/14/12	11/14/12 17:01	SRM	PE-EL2	1	BVK1021



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-05	Client Sample Name: JPL-GW, MW-22-3, 11/8/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.14	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-05	Client Sample Name: JPL-GW, MW-22-3, 11/8/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-05	Client Sample Name: JPL-GW, MW-22-3, 11/8/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 01:29	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-05	Client Sample Name: JPL-GW, MW-22-3, 11/8/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 01:29	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-05	Client Sample Name: JPL-GW, MW-22-3, 11/8/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 20:55	LS1	IC6	1	BVK1207



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-05	Client Sample Name: JPL-GW, MW-22-3, 11/8/2012 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0019	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/08/12 22:07	TDC	KONE-1	1	BVK0715
2	EPA-200.8	11/14/12	11/14/12 17:04	SRM	PE-EL2	1	BVK1021

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505 King Ave.
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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-06	Client Sample Name: JPL-GW, MW-22-2, 11/8/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.19	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.11	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-06	Client Sample Name: JPL-GW, MW-22-2, 11/8/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.16	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.19	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-06	Client Sample Name: JPL-GW, MW-22-2, 11/8/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 20:38	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-06	Client Sample Name: JPL-GW, MW-22-2, 11/8/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/13/12 20:38	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-06	Client Sample Name: JPL-GW, MW-22-2, 11/8/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 19:22	LS1	IC6	1	BVK1207



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-06	Client Sample Name: JPL-GW, MW-22-2, 11/8/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0014	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/08/12 22:07	TDC	KONE-1	1	BVK0715
2	EPA-200.8	11/14/12	11/14/12 16:24	SRM	PE-EL2	1	BVK1021



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-07	Client Sample Name: JPL-GW, MW-22-1, 11/8/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.33	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.20	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-07	Client Sample Name: JPL-GW, MW-22-1, 11/8/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.44	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.77	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-07	Client Sample Name: JPL-GW, MW-22-1, 11/8/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 01:52	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-07	Client Sample Name: JPL-GW, MW-22-1, 11/8/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 01:52	MGC	MS-V5	1	BVK0839

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-07	Client Sample Name: JPL-GW, MW-22-1, 11/8/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 21:35	LS1	IC6	1	BVK1207



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-07	Client Sample Name: JPL-GW, MW-22-1, 11/8/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.82	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/09/12 08:02	TDC	KONE-1	1	BVK0715
2	EPA-200.8	11/14/12	11/14/12 17:08	SRM	PE-EL2	1	BVK1021



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-08	Client Sample Name: JPL-GW, MW-4-5, 11/8/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-08	Client Sample Name: JPL-GW, MW-4-5, 11/8/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.11	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-08	Client Sample Name: JPL-GW, MW-4-5, 11/8/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 02:14	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-08	Client Sample Name: JPL-GW, MW-4-5, 11/8/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 02:14	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-08	Client Sample Name: JPL-GW, MW-4-5, 11/8/2012 11:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 21:49	LS1	IC6	1	BVK1207



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-08	Client Sample Name: JPL-GW, MW-4-5, 11/8/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/09/12 08:02	TDC	KONE-1	1	BVK0715
2	EPA-200.8	11/14/12	11/14/12 17:11	SRM	PE-EL2	1	BVK1021



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-09	Client Sample Name: JPL-GW, MW-4-4, 11/8/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-09	Client Sample Name: JPL-GW, MW-4-4, 11/8/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-09	Client Sample Name: JPL-GW, MW-4-4, 11/8/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 02:37	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-09	Client Sample Name: JPL-GW, MW-4-4, 11/8/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 02:37	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-09	Client Sample Name: JPL-GW, MW-4-4, 11/8/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 22:02	LS1	IC6	1	BVK1207

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-09	Client Sample Name: JPL-GW, MW-4-4, 11/8/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/09/12 08:02	TDC	KONE-1	1	BVK0715
2	EPA-200.8	11/14/12	11/14/12 17:14	SRM	PE-EL2	1	BVK1021



Battelle MHTS
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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-10	Client Sample Name: JPL-GW, MW-4-3, 11/8/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-10	Client Sample Name: JPL-GW, MW-4-3, 11/8/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-10	Client Sample Name: JPL-GW, MW-4-3, 11/8/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 04:07	MGC	MS-V5	1	BVK0930



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-10	Client Sample Name: JPL-GW, MW-4-3, 11/8/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 04:07	MGC	MS-V5	1	BVK0930



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-10	Client Sample Name: JPL-GW, MW-4-3, 11/8/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 22:42	LS1	IC6	1	BVK1206



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-10	Client Sample Name: JPL-GW, MW-4-3, 11/8/2012 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/09/12 08:02	TDC	KONE-1	1	BVK0715
2	EPA-200.8	11/19/12	11/19/12 18:44	SRM	PE-EL2	1	BVK1359



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-11	Client Sample Name: JPL-GW, MW-4-2, 11/8/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	1.3	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	1.9	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	2.8	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.12	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-11	Client Sample Name: JPL-GW, MW-4-2, 11/8/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.36	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.19	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-11	Client Sample Name: JPL-GW, MW-4-2, 11/8/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 02:59	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-11	Client Sample Name: JPL-GW, MW-4-2, 11/8/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 02:59	MGC	MS-V5	1	BVK0839



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-11	Client Sample Name: JPL-GW, MW-4-2, 11/8/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	170	ug/L	40	8.1	EPA-314.0	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/16/12 08:27	LS1	IC6	10	BVK1206



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-11	Client Sample Name: JPL-GW, MW-4-2, 11/8/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	4.5	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/09/12 08:02	TDC	KONE-1	1	BVK0715
2	EPA-200.8	11/19/12	11/19/12 19:09	SRM	PE-EL2	1	BVK1359

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Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-12	Client Sample Name: JPL-GW, MW-4-1, 11/8/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-12	Client Sample Name: JPL-GW, MW-4-1, 11/8/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221655-12	Client Sample Name: JPL-GW, MW-4-1, 11/8/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 03:22	MGC	MS-V5	1	BVK0839



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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221655-12	Client Sample Name: JPL-GW, MW-4-1, 11/8/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/13/12	11/14/12 03:22	MGC	MS-V5	1	BVK0839



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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221655-12	Client Sample Name: JPL-GW, MW-4-1, 11/8/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/16/12 00:15	LS1	IC6	1	BVK1206



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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221655-12	Client Sample Name: JPL-GW, MW-4-1, 11/8/2012 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/08/12	11/09/12 08:02	TDC	KONE-1	1	BVK0717
2	EPA-200.8	11/19/12	11/19/12 19:13	SRM	PE-EL2	1	BVK1359



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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0839						
Benzene	BVK0839-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK0839-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK0839-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK0839-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK0839-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK0839-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK0839-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK0839-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK0839-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK0839-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVK0839-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK0839-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK0839-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK0839-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK0839-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK0839-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK0839-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK0839-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK0839-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK0839-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK0839-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK0839-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK0839-BLK1	ND	ug/L	0.50	0.14	

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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0839						
trans-1,3-Dichloropropene	BVK0839-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK0839-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK0839-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK0839-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK0839-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK0839-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK0839-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK0839-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK0839-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK0839-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK0839-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK0839-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK0839-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK0839-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK0839-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK0839-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK0839-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK0839-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK0839-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK0839-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK0839-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK0839-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK0839-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK0839-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK0839-BLK1	ND	ug/L	4.0	0.97	

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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVK0839

Ethyl t-butyl ether	BVK0839-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK0839-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK0839-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK0839-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK0839-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK0839-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK0839-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK0839-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK0839-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK0839-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK0839-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK0839-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK0839-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK0839-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK0839-BLK1	99.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK0839-BLK1	92.0	%	80 - 120 (LCL - UCL)		

QC Batch ID: BVK0930

Benzene	BVK0930-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK0930-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK0930-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK0930-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK0930-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK0930-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK0930-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK0930-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK0930-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK0930-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK0930-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK0930-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK0930-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK0930-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK0930-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK0930-BLK1	ND	ug/L	0.50	0.15	



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Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0930						
Dibromochloromethane	BVK0930-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK0930-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK0930-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK0930-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK0930-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK0930-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK0930-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK0930-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK0930-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK0930-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK0930-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK0930-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK0930-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK0930-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK0930-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK0930-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK0930-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK0930-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BVK0930-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK0930-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK0930-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK0930-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK0930-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK0930-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK0930-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK0930-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK0930-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK0930-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK0930-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVK0930-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK0930-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK0930-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK0930-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK0930-BLK1	ND	ug/L	0.50	0.19	

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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0930						
1,1,1-Trichloroethane	BVK0930-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK0930-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK0930-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK0930-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK0930-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK0930-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK0930-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK0930-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK0930-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK0930-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK0930-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK0930-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK0930-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK0930-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK0930-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK0930-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK0930-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK0930-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BVK0930-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK0930-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK0930-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK0930-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK0930-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK0930-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK0930-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK0930-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK0930-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK0930-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK0930-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK0930-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK0930-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK0930-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK0930-BLK1	98.8	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK0930-BLK1	89.6	%	80 - 120 (LCL - UCL)		

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK0839										
Benzene	BVK0839-BS1	LCS	24.560	25.000	ug/L	98.2		70 - 130		
Bromodichloromethane	BVK0839-BS1	LCS	26.610	25.000	ug/L	106		70 - 130		
Chlorobenzene	BVK0839-BS1	LCS	23.050	25.000	ug/L	92.2		70 - 130		
Chloroethane	BVK0839-BS1	LCS	25.700	25.000	ug/L	103		70 - 130		
1,4-Dichlorobenzene	BVK0839-BS1	LCS	22.040	25.000	ug/L	88.2		70 - 130		
1,1-Dichloroethane	BVK0839-BS1	LCS	23.550	25.000	ug/L	94.2		70 - 130		
1,1-Dichloroethene	BVK0839-BS1	LCS	23.470	25.000	ug/L	93.9		70 - 130		
Toluene	BVK0839-BS1	LCS	25.040	25.000	ug/L	100		70 - 130		
Trichloroethene	BVK0839-BS1	LCS	24.360	25.000	ug/L	97.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK0839-BS1	LCS	10.390	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BVK0839-BS1	LCS	10.090	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK0839-BS1	LCS	9.8600	10.000	ug/L	98.6		80 - 120		
QC Batch ID: BVK0930										
Benzene	BVK0930-BS1	LCS	24.920	25.000	ug/L	99.7		70 - 130		
Bromodichloromethane	BVK0930-BS1	LCS	27.640	25.000	ug/L	111		70 - 130		
Chlorobenzene	BVK0930-BS1	LCS	23.920	25.000	ug/L	95.7		70 - 130		
Chloroethane	BVK0930-BS1	LCS	26.080	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	BVK0930-BS1	LCS	22.320	25.000	ug/L	89.3		70 - 130		
1,1-Dichloroethane	BVK0930-BS1	LCS	24.010	25.000	ug/L	96.0		70 - 130		
1,1-Dichloroethene	BVK0930-BS1	LCS	23.440	25.000	ug/L	93.8		70 - 130		
Toluene	BVK0930-BS1	LCS	26.290	25.000	ug/L	105		70 - 130		
Trichloroethene	BVK0930-BS1	LCS	27.910	25.000	ug/L	112		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK0930-BS1	LCS	9.8100	10.000	ug/L	98.1		75 - 125		
Toluene-d8 (Surrogate)	BVK0930-BS1	LCS	10.310	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK0930-BS1	LCS	9.5900	10.000	ug/L	95.9		80 - 120		



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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0839		Used client sample: Y - Description: MW-22-2, 11/08/2012 09:30								
Benzene	MS	1221655-06	ND	24.890	25.000	ug/L		99.6		70 - 130
	MSD	1221655-06	ND	24.680	25.000	ug/L	0.8	98.7	20	70 - 130
Bromodichloromethane	MS	1221655-06	ND	27.860	25.000	ug/L		111		70 - 130
	MSD	1221655-06	ND	28.530	25.000	ug/L	2.4	114	20	70 - 130
Chlorobenzene	MS	1221655-06	ND	23.750	25.000	ug/L		95.0		70 - 130
	MSD	1221655-06	ND	23.580	25.000	ug/L	0.7	94.3	20	70 - 130
Chloroethane	MS	1221655-06	ND	25.990	25.000	ug/L		104		70 - 130
	MSD	1221655-06	ND	25.600	25.000	ug/L	1.5	102	20	70 - 130
1,4-Dichlorobenzene	MS	1221655-06	ND	22.590	25.000	ug/L		90.4		70 - 130
	MSD	1221655-06	ND	22.670	25.000	ug/L	0.4	90.7	20	70 - 130
1,1-Dichloroethane	MS	1221655-06	0.11000	24.120	25.000	ug/L		96.0		70 - 130
	MSD	1221655-06	0.11000	23.910	25.000	ug/L	0.9	95.2	20	70 - 130
1,1-Dichloroethene	MS	1221655-06	ND	23.740	25.000	ug/L		95.0		70 - 130
	MSD	1221655-06	ND	23.200	25.000	ug/L	2.3	92.8	20	70 - 130
Toluene	MS	1221655-06	ND	25.590	25.000	ug/L		102		70 - 130
	MSD	1221655-06	ND	25.860	25.000	ug/L	1.0	103	20	70 - 130
Trichloroethene	MS	1221655-06	0.19000	24.060	25.000	ug/L		95.5		70 - 130
	MSD	1221655-06	0.19000	24.470	25.000	ug/L	1.7	97.1	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221655-06	ND	10.070	10.000	ug/L		101		75 - 125
	MSD	1221655-06	ND	9.7500	10.000	ug/L	3.2	97.5		75 - 125
Toluene-d8 (Surrogate)	MS	1221655-06	ND	9.9800	10.000	ug/L		99.8		80 - 120
	MSD	1221655-06	ND	9.9900	10.000	ug/L	0.1	99.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221655-06	ND	9.6300	10.000	ug/L		96.3		80 - 120
	MSD	1221655-06	ND	9.5500	10.000	ug/L	0.8	95.5		80 - 120
QC Batch ID: BVK0930		Used client sample: Y - Description: MW-4-3, 11/08/2012 12:40								
Benzene	MS	1221655-10	ND	24.580	25.000	ug/L		98.3		70 - 130
	MSD	1221655-10	ND	24.060	25.000	ug/L	2.1	96.2	20	70 - 130
Bromodichloromethane	MS	1221655-10	ND	27.900	25.000	ug/L		112		70 - 130
	MSD	1221655-10	ND	27.580	25.000	ug/L	1.2	110	20	70 - 130
Chlorobenzene	MS	1221655-10	ND	23.590	25.000	ug/L		94.4		70 - 130
	MSD	1221655-10	ND	22.910	25.000	ug/L	2.9	91.6	20	70 - 130
Chloroethane	MS	1221655-10	ND	26.200	25.000	ug/L		105		70 - 130
	MSD	1221655-10	ND	25.020	25.000	ug/L	4.6	100	20	70 - 130
1,4-Dichlorobenzene	MS	1221655-10	ND	22.560	25.000	ug/L		90.2		70 - 130
	MSD	1221655-10	ND	21.970	25.000	ug/L	2.6	87.9	20	70 - 130
1,1-Dichloroethane	MS	1221655-10	ND	23.890	25.000	ug/L		95.6		70 - 130
	MSD	1221655-10	ND	23.260	25.000	ug/L	2.7	93.0	20	70 - 130

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0930		Used client sample: Y - Description: MW-4-3, 11/08/2012 12:40								
1,1-Dichloroethene	MS	1221655-10	ND	23.570	25.000	ug/L		94.3		70 - 130
	MSD	1221655-10	ND	22.910	25.000	ug/L	2.8	91.6	20	70 - 130
Toluene	MS	1221655-10	ND	25.710	25.000	ug/L		103		70 - 130
	MSD	1221655-10	ND	25.250	25.000	ug/L	1.8	101	20	70 - 130
Trichloroethene	MS	1221655-10	ND	24.100	25.000	ug/L		96.4		70 - 130
	MSD	1221655-10	ND	23.800	25.000	ug/L	1.3	95.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221655-10	ND	9.9600	10.000	ug/L		99.6		75 - 125
	MSD	1221655-10	ND	9.6500	10.000	ug/L	3.2	96.5		75 - 125
Toluene-d8 (Surrogate)	MS	1221655-10	ND	10.130	10.000	ug/L		101		80 - 120
	MSD	1221655-10	ND	9.9800	10.000	ug/L	1.5	99.8		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221655-10	ND	9.4300	10.000	ug/L		94.3		80 - 120
	MSD	1221655-10	ND	9.2200	10.000	ug/L	2.3	92.2		80 - 120



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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
-------------	--------------	-----------	-------	-----	-----	-----------

QC Batch ID: BVK0839

Chloroacetonitrile	BVK0839-BLK1	0	ug/L			
1-Chlorobutane	BVK0839-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK0839-BLK1	0	ug/L			
Methyl acrylate	BVK0839-BLK1	0	ug/L			
Nitrobenzene	BVK0839-BLK1	0	ug/L			
2-Nitropropane	BVK0839-BLK1	0	ug/L			

QC Batch ID: BVK0930

Chloroacetonitrile	BVK0930-BLK1	0	ug/L			
1-Chlorobutane	BVK0930-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK0930-BLK1	0	ug/L			
Methyl acrylate	BVK0930-BLK1	0	ug/L			
Nitrobenzene	BVK0930-BLK1	0	ug/L			
2-Nitropropane	BVK0930-BLK1	0	ug/L			



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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1206						
Perchlorate	BVK1206-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: BVK1207						
Perchlorate	BVK1207-BLK1	ND	ug/L	4.0	0.81	



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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVK1206											
Perchlorate	BVK1206-BS1	LCS	11.214	10.000	ug/L	112		85	115		
QC Batch ID: BVK1207											
Perchlorate	BVK1207-BS1	LCS	10.484	10.000	ug/L	105		85	115		



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505 King Ave.
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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK1206		Used client sample: Y - Description: MW-4-3, 11/08/2012 12:40								
Perchlorate	DUP	1221655-10	ND	ND		ug/L			15	
	MS	1221655-10	ND	8.5235	10.101	ug/L		84.4		80 - 120
	MSD	1221655-10	ND	8.5451	10.101	ug/L	0.3	84.6	15	80 - 120
QC Batch ID: BVK1207		Used client sample: Y - Description: MW-22-2, 11/08/2012 09:30								
Perchlorate	DUP	1221655-06	ND	ND		ug/L			15	
	MS	1221655-06	ND	9.0838	10.101	ug/L		89.9		80 - 120
	MSD	1221655-06	ND	8.5667	10.101	ug/L	5.9	84.8	15	80 - 120

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505 King Ave.
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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0715						
Hexavalent Chromium	BVK0715-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK0717						
Hexavalent Chromium	BVK0717-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1021						
Total Recoverable Chromium	BVK1021-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BVK1359						
Total Recoverable Chromium	BVK1359-BLK1	ND	ug/L	3.0	0.50	



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Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVK0715											
Hexavalent Chromium	BVK0715-BS1	LCS	0.050180	0.050000	mg/L	100		85	115		
QC Batch ID: BVK0717											
Hexavalent Chromium	BVK0717-BS1	LCS	0.051065	0.050000	mg/L	102		85	115		
QC Batch ID: BVK1021											
Total Recoverable Chromium	BVK1021-BS1	LCS	44.176	40.000	ug/L	110		85	115		
QC Batch ID: BVK1359											
Total Recoverable Chromium	BVK1359-BS1	LCS	40.694	40.000	ug/L	102		85	115		



Battelle MHTS
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Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0715		Used client sample: Y - Description: MW-22-2, 11/08/2012 09:30								
Hexavalent Chromium	DUP	1221655-06	0.0014420	0.0013870		mg/L	3.9		10	J
	MS	1221655-06	0.0014420	0.053249	0.052632	mg/L		98.4	85 - 115	
	MSD	1221655-06	0.0014420	0.053235	0.052632	mg/L	0.0	98.4	10 85 - 115	
QC Batch ID: BVK0717		Used client sample: Y - Description: MW-4-1, 11/08/2012 13:55								
Hexavalent Chromium	DUP	1221655-12	ND	ND		mg/L			10	
	MS	1221655-12	ND	0.043312	0.052632	mg/L		82.3	85 - 115	
	MSD	1221655-12	ND	0.043951	0.052632	mg/L	1.5	83.5	10 85 - 115	
QC Batch ID: BVK1021		Used client sample: Y - Description: MW-22-2, 11/08/2012 09:30								
Total Recoverable Chromium	DUP	1221655-06	1.4100	1.3080		ug/L	7.5		20	J
	MS	1221655-06	1.4100	43.142	40.000	ug/L		104	70 - 130	
	MSD	1221655-06	1.4100	41.683	40.000	ug/L	3.4	101	20 70 - 130	
QC Batch ID: BVK1359		Used client sample: Y - Description: MW-4-3, 11/08/2012 12:40								
Total Recoverable Chromium	DUP	1221655-10	2.1350	2.2480		ug/L	5.2		20	J
	MS	1221655-10	2.1350	43.103	40.000	ug/L		102	70 - 130	
	MSD	1221655-10	2.1350	41.431	40.000	ug/L	4.0	98.2	20 70 - 130	



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Columbus, OH 43201

Reported: 11/26/2012 9:22
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/26/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1221765

Invoice ID: B134681

Enclosed are the results of analyses for samples received by the laboratory on 11/9/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Quality Control Reports

Volatile Organic Analysis (EPA Method 524.2)

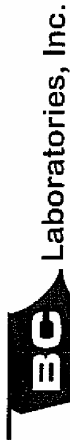


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Chain of Custody Form



Page 1 of 1

*Required Fields

Report To: Battelle MHTS
 Client: David Conner
 Attn: David Conner
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone: (614) 424-5489 Fax: (614) 458-5489
 Email Address: connerd@battelle.org
 Submission #: 10-21705

Project Description: JPL-GW Monitoring
 Project Code: 4Q12
 Sampler(s): Blaine Tech

Sample #	Sample Description	Date	Time	Matrix*	Analysis Requested																	
					VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7198 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 366.1	Nitrite 353.2											
1	TB-5-110912	11-9-12	0630	AQ	X	X	X	X	X	X	X											
2	EB-5-110912		0650		X	X	X	X	X	X	X											
3	MW-26-2		0715		X	X	X	X	X	X	X											
4	MW-26-1		0750		X	X	X	X	X	X	X											
5	MW-25-5		0935		X	X	X	X	X	X	X											
6	MW-25-4		1010		X	X	X	X	X	X	X											
7	MW-25-3		1040		X	X	X	X	X	X	X											
8	MW-25-2		1115		X	X	X	X	X	X	X											
9	MW-25-1		1150	↓	X	X	X	X	X	X	X											

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____ * Additional Charges May Apply

Client: SAME
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Notes: CHK BY DELIVERION
 SUB-OUT

MS/MSD DO Cl₂ BOD MBAS
 Level IV

Global ID: _____

1. Received By: [Signature] Date: 11-9-12 Time: 1315
 2. Relinquished By: [Signature] Date: 11-9-12 Time: 1425
 3. Relinquished By: [Signature] Date: 11-9-12 Time: 1715

Cost Center: _____

MBU Site
 CVX RCRA
 Geotracker 5 File (CA Default)
 Geotracker 2 File
 Other (Specify) _____

Comments: PLEASE NOTE WHICH SAMPLES TO USE FOR QC (MS/MSD).....
 Also, please indicate which samples are level III and level IV CLP.....

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com



Chain of Custody and Cooler Receipt Form for 1221765 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 1

Submission #: 12-21765

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO Emissivity: 0.95 Container: OTPE Thermometer ID: 207 Date/Time 11-9-12
 Temperature: (A) 1.1 °C / (C) 1.3 °C Analyst Init JNW 1715

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A3	A3	A3	A3	A3	AM	A3	A3	AM
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 612										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 11/9/12 1730
 A = Actual / C = Corrected



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221765-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-5-110912 Sampled By: Blaine Tech of BAT	Receive Date: 11/09/2012 17:15 Sampling Date: 11/09/2012 06:30 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): TB-5-110912 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221765-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-5-110912 Sampled By: Blaine Tech of BAT	Receive Date: 11/09/2012 17:15 Sampling Date: 11/09/2012 06:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): EB-5-110912 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221765-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-26-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/09/2012 17:15 Sampling Date: 11/09/2012 07:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-26-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221765-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-26-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/09/2012 17:15 Sampling Date: 11/09/2012 07:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-26-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221765-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUPE-2-4Q12 Sampled By: Blaine Tech of BAT	Receive Date: 11/09/2012 17:15 Sampling Date: 11/09/2012 07:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): DUPE-2-4Q12 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221765-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/09/2012 17:15 Sampling Date: 11/09/2012 09:35 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-25-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221765-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/09/2012 17:15 Sampling Date: 11/09/2012 10:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-25-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221765-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/09/2012 17:15 Sampling Date: 11/09/2012 10:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-25-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221765-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/09/2012 17:15 Sampling Date: 11/09/2012 11:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-25-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221765-10

COC Number: ---
Project Number: JPL-GW
Sampling Location: ---
Sampling Point: MW-25-1
Sampled By: Blaine Tech of BAT

Receive Date: 11/09/2012 17:15
Sampling Date: 11/09/2012 11:50
Sample Depth: ---
Lab Matrix: Water
Sample Type: Aqueous
Delivery Work Order:
Global ID: 00000000000
Location ID (FieldPoint): MW-25-1
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-01	Client Sample Name: JPL-GW, TB-5-110912, 11/9/2012 6:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-01	Client Sample Name: JPL-GW, TB-5-110912, 11/9/2012 6:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-01	Client Sample Name: JPL-GW, TB-5-110912, 11/9/2012 6:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 10:30	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221765-01	Client Sample Name: JPL-GW, TB-5-110912, 11/9/2012 6:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 10:30	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-02	Client Sample Name: JPL-GW, EB-5-110912, 11/9/2012 6:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-02	Client Sample Name: JPL-GW, EB-5-110912, 11/9/2012 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-02	Client Sample Name: JPL-GW, EB-5-110912, 11/9/2012 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 10:52	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221765-02	Client Sample Name: JPL-GW, EB-5-110912, 11/9/2012 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 10:52	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221765-02	Client Sample Name: JPL-GW, EB-5-110912, 11/9/2012 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 14:30	LD1	IC6	1	BVK1205

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Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221765-02	Client Sample Name: JPL-GW, EB-5-110912, 11/9/2012 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/09/12	11/09/12 18:25	TDC	KONE-1	1	BVK0817
2	EPA-200.8	11/19/12	11/19/12 18:03	SRM	PE-EL2	1	BVK1360



Battelle MHTS
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-03	Client Sample Name: JPL-GW, MW-26-2, 11/9/2012 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-03	Client Sample Name: JPL-GW, MW-26-2, 11/9/2012 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-03	Client Sample Name: JPL-GW, MW-26-2, 11/9/2012 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 11:15	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221765-03	Client Sample Name: JPL-GW, MW-26-2, 11/9/2012 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 11:15	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221765-03	Client Sample Name: JPL-GW, MW-26-2, 11/9/2012 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 16:43	LS1	IC6	1	BVK1205

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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221765-03	Client Sample Name: JPL-GW, MW-26-2, 11/9/2012 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0010	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	0.75	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	11/09/12	11/09/12	18:25	TDC	KONE-1	1	BVK0817
2	EPA-200.8	11/19/12	11/19/12	18:06	SRM	PE-EL2	1	BVK1360

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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-04	Client Sample Name: JPL-GW, MW-26-1, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	0.16	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.39	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.11	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-04	Client Sample Name: JPL-GW, MW-26-1, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.79	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.33	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-04	Client Sample Name: JPL-GW, MW-26-1, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 11:37	MGC	MS-V5	1	BVK0983



Battelle MHTS
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221765-04	Client Sample Name: JPL-GW, MW-26-1, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 11:37	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221765-04	Client Sample Name: JPL-GW, MW-26-1, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 15:10	LD1	IC6	1	BVK1205

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221765-04	Client Sample Name: JPL-GW, MW-26-1, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	11/09/12	11/09/12	18:25	TDC	KONE-1	1	BVK0817
2	EPA-200.8	11/19/12	11/19/12	18:09	SRM	PE-EL2	1	BVK1360



Battelle MHTS
505 King Ave.
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-05	Client Sample Name: JPL-GW, DUPE-2-4Q12, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	0.14	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.32	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-05		Client Sample Name: JPL-GW, DUPE-2-4Q12, 11/9/2012 7:50:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.61	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.27	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-05	Client Sample Name: JPL-GW, DUPE-2-4Q12, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 12:00	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221765-05	Client Sample Name: JPL-GW, DUPE-2-4Q12, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 12:00	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221765-05	Client Sample Name: JPL-GW, DUPE-2-4Q12, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 15:23	LD1	IC6	1	BVK1205



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221765-05	Client Sample Name: JPL-GW, DUPE-2-4Q12, 11/9/2012 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.52	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/09/12	11/09/12 18:25	TDC	KONE-1	1	BVK0817
2	EPA-200.8	11/19/12	11/19/12 18:13	SRM	PE-EL2	1	BVK1360



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-06	Client Sample Name: JPL-GW, MW-25-5, 11/9/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-06	Client Sample Name: JPL-GW, MW-25-5, 11/9/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-06	Client Sample Name: JPL-GW, MW-25-5, 11/9/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 12:22	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221765-06	Client Sample Name: JPL-GW, MW-25-5, 11/9/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 12:22	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221765-06	Client Sample Name: JPL-GW, MW-25-5, 11/9/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 15:36	LD1	IC6	1	BVK1205



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221765-06	Client Sample Name: JPL-GW, MW-25-5, 11/9/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	11/09/12	11/09/12	18:32	TDC	KONE-1	1	BVK0817
2	EPA-200.8	11/19/12	11/19/12	18:16	SRM	PE-EL2	1	BVK1360

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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-07	Client Sample Name: JPL-GW, MW-25-4, 11/9/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-07	Client Sample Name: JPL-GW, MW-25-4, 11/9/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-07	Client Sample Name: JPL-GW, MW-25-4, 11/9/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 08:15	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221765-07	Client Sample Name: JPL-GW, MW-25-4, 11/9/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 08:15	MGC	MS-V5	1	BVK0983



Battelle MHTS
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221765-07	Client Sample Name: JPL-GW, MW-25-4, 11/9/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.6	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 13:36	LD1	IC6	1	BVK1205



Battelle MHTS
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221765-07	Client Sample Name: JPL-GW, MW-25-4, 11/9/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00091	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/09/12	11/09/12 18:25	TDC	KONE-1	1	BVK0817
2	EPA-200.8	11/19/12	11/19/12 17:38	SRM	PE-EL2	1	BVK1360



Battelle MHTS
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-08	Client Sample Name: JPL-GW, MW-25-3, 11/9/2012 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.42	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-08	Client Sample Name: JPL-GW, MW-25-3, 11/9/2012 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-08	Client Sample Name: JPL-GW, MW-25-3, 11/9/2012 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 12:44	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221765-08	Client Sample Name: JPL-GW, MW-25-3, 11/9/2012 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 12:44	MGC	MS-V5	1	BVK0983



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505 King Ave.
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221765-08	Client Sample Name: JPL-GW, MW-25-3, 11/9/2012 10:40:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	6.0	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 15:49	LS1	IC6	1	BVK1205



Battelle MHTS
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221765-08	Client Sample Name: JPL-GW, MW-25-3, 11/9/2012 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0036	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	3.1	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/09/12	11/09/12 18:32	TDC	KONE-1	1	BVK0817
2	EPA-200.8	11/19/12	11/19/12 18:19	SRM	PE-EL2	1	BVK1360



Battelle MHTS
505 King Ave.
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-09	Client Sample Name: JPL-GW, MW-25-2, 11/9/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.12	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-09	Client Sample Name: JPL-GW, MW-25-2, 11/9/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.11	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-09	Client Sample Name: JPL-GW, MW-25-2, 11/9/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 13:07	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221765-09	Client Sample Name: JPL-GW, MW-25-2, 11/9/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 13:07	MGC	MS-V5	1	BVK0983



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221765-09	Client Sample Name: JPL-GW, MW-25-2, 11/9/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	11	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 16:03	LS1	IC6	1	BVK1205



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221765-09	Client Sample Name: JPL-GW, MW-25-2, 11/9/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0025	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/09/12	11/09/12 18:32	TDC	KONE-1	1	BVK0817
2	EPA-200.8	11/19/12	11/19/12 18:22	SRM	PE-EL2	1	BVK1360



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-10	Client Sample Name: JPL-GW, MW-25-1, 11/9/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.47	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-10	Client Sample Name: JPL-GW, MW-25-1, 11/9/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.16	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.8	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221765-10	Client Sample Name: JPL-GW, MW-25-1, 11/9/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 13:52	MGC	MS-V5	1	BVK0984



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221765-10	Client Sample Name: JPL-GW, MW-25-1, 11/9/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 13:52	MGC	MS-V5	1	BVK0984



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221765-10	Client Sample Name: JPL-GW, MW-25-1, 11/9/2012 11:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	6.0	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/15/12	11/15/12 16:16	LS1	IC6	1	BVK1205

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221765-10	Client Sample Name: JPL-GW, MW-25-1, 11/9/2012 11:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	5.0	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/09/12	11/09/12 18:32	TDC	KONE-1	1	BVK0817
2	EPA-200.8	11/19/12	11/19/12 18:25	SRM	PE-EL2	1	BVK1360



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0983						
Benzene	BVK0983-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK0983-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK0983-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK0983-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK0983-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK0983-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK0983-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK0983-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK0983-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK0983-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK0983-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK0983-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK0983-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK0983-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK0983-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK0983-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVK0983-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK0983-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK0983-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK0983-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK0983-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK0983-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK0983-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK0983-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK0983-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK0983-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK0983-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK0983-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK0983-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK0983-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK0983-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK0983-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK0983-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK0983-BLK1	ND	ug/L	0.50	0.14	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0983						
trans-1,3-Dichloropropene	BVK0983-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK0983-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK0983-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK0983-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK0983-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK0983-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK0983-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK0983-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK0983-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK0983-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK0983-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVK0983-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK0983-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK0983-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK0983-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK0983-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVK0983-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK0983-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK0983-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK0983-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK0983-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK0983-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK0983-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK0983-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK0983-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK0983-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK0983-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK0983-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK0983-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK0983-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK0983-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK0983-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK0983-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK0983-BLK1	ND	ug/L	4.0	0.97	

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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVK0983

Ethyl t-butyl ether	BVK0983-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK0983-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK0983-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK0983-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK0983-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK0983-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK0983-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK0983-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK0983-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK0983-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK0983-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK0983-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK0983-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK0983-BLK1	99.1	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK0983-BLK1	99.8	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK0983-BLK1	87.5	%	80 - 120 (LCL - UCL)		

QC Batch ID: BVK0984

Benzene	BVK0984-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK0984-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK0984-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK0984-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK0984-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK0984-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK0984-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK0984-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK0984-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK0984-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK0984-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK0984-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK0984-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK0984-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK0984-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK0984-BLK1	ND	ug/L	0.50	0.15	



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Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0984						
Dibromochloromethane	BVK0984-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK0984-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK0984-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK0984-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK0984-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK0984-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK0984-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK0984-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK0984-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK0984-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK0984-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK0984-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK0984-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK0984-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK0984-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK0984-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK0984-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK0984-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BVK0984-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK0984-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK0984-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK0984-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK0984-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK0984-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK0984-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK0984-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK0984-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK0984-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK0984-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BVK0984-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK0984-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK0984-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK0984-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK0984-BLK1	ND	ug/L	0.50	0.19	

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505 King Ave.
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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0984						
1,1,1-Trichloroethane	BVK0984-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK0984-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK0984-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK0984-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK0984-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK0984-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK0984-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK0984-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK0984-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK0984-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK0984-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK0984-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK0984-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK0984-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK0984-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK0984-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK0984-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK0984-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BVK0984-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK0984-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK0984-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK0984-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK0984-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK0984-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK0984-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK0984-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK0984-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK0984-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK0984-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK0984-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK0984-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK0984-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK0984-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK0984-BLK1	86.5	%	80 - 120 (LCL - UCL)		

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505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK0983										
Benzene	BVK0983-BS1	LCS	24.950	25.000	ug/L	99.8		70 - 130		
Bromodichloromethane	BVK0983-BS1	LCS	27.010	25.000	ug/L	108		70 - 130		
Chlorobenzene	BVK0983-BS1	LCS	23.500	25.000	ug/L	94.0		70 - 130		
Chloroethane	BVK0983-BS1	LCS	25.210	25.000	ug/L	101		70 - 130		
1,4-Dichlorobenzene	BVK0983-BS1	LCS	22.140	25.000	ug/L	88.6		70 - 130		
1,1-Dichloroethane	BVK0983-BS1	LCS	23.810	25.000	ug/L	95.2		70 - 130		
1,1-Dichloroethene	BVK0983-BS1	LCS	23.800	25.000	ug/L	95.2		70 - 130		
Toluene	BVK0983-BS1	LCS	25.700	25.000	ug/L	103		70 - 130		
Trichloroethene	BVK0983-BS1	LCS	24.490	25.000	ug/L	98.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK0983-BS1	LCS	9.7400	10.000	ug/L	97.4		75 - 125		
Toluene-d8 (Surrogate)	BVK0983-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK0983-BS1	LCS	9.2700	10.000	ug/L	92.7		80 - 120		

QC Batch ID: BVK0984										
Benzene	BVK0984-BS1	LCS	23.840	25.000	ug/L	95.4		70 - 130		
Bromodichloromethane	BVK0984-BS1	LCS	26.370	25.000	ug/L	105		70 - 130		
Chlorobenzene	BVK0984-BS1	LCS	22.760	25.000	ug/L	91.0		70 - 130		
Chloroethane	BVK0984-BS1	LCS	24.880	25.000	ug/L	99.5		70 - 130		
1,4-Dichlorobenzene	BVK0984-BS1	LCS	21.570	25.000	ug/L	86.3		70 - 130		
1,1-Dichloroethane	BVK0984-BS1	LCS	22.500	25.000	ug/L	90.0		70 - 130		
1,1-Dichloroethene	BVK0984-BS1	LCS	22.230	25.000	ug/L	88.9		70 - 130		
Toluene	BVK0984-BS1	LCS	24.940	25.000	ug/L	99.8		70 - 130		
Trichloroethene	BVK0984-BS1	LCS	23.920	25.000	ug/L	95.7		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK0984-BS1	LCS	9.7800	10.000	ug/L	97.8		75 - 125		
Toluene-d8 (Surrogate)	BVK0984-BS1	LCS	10.220	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK0984-BS1	LCS	9.5000	10.000	ug/L	95.0		80 - 120		



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Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0983		Used client sample: Y - Description: MW-25-4, 11/09/2012 10:10								
Benzene	MS	1221765-07	ND	23.990	25.000	ug/L		96.0		70 - 130
	MSD	1221765-07	ND	24.120	25.000	ug/L	0.5	96.5	20	70 - 130
Bromodichloromethane	MS	1221765-07	ND	27.500	25.000	ug/L		110		70 - 130
	MSD	1221765-07	ND	27.920	25.000	ug/L	1.5	112	20	70 - 130
Chlorobenzene	MS	1221765-07	ND	22.980	25.000	ug/L		91.9		70 - 130
	MSD	1221765-07	ND	23.120	25.000	ug/L	0.6	92.5	20	70 - 130
Chloroethane	MS	1221765-07	ND	24.990	25.000	ug/L		100		70 - 130
	MSD	1221765-07	ND	25.090	25.000	ug/L	0.4	100	20	70 - 130
1,4-Dichlorobenzene	MS	1221765-07	ND	22.250	25.000	ug/L		89.0		70 - 130
	MSD	1221765-07	ND	22.370	25.000	ug/L	0.5	89.5	20	70 - 130
1,1-Dichloroethane	MS	1221765-07	ND	22.940	25.000	ug/L		91.8		70 - 130
	MSD	1221765-07	ND	23.230	25.000	ug/L	1.3	92.9	20	70 - 130
1,1-Dichloroethene	MS	1221765-07	ND	22.550	25.000	ug/L		90.2		70 - 130
	MSD	1221765-07	ND	22.940	25.000	ug/L	1.7	91.8	20	70 - 130
Toluene	MS	1221765-07	ND	25.140	25.000	ug/L		101		70 - 130
	MSD	1221765-07	ND	25.510	25.000	ug/L	1.5	102	20	70 - 130
Trichloroethene	MS	1221765-07	ND	23.410	25.000	ug/L		93.6		70 - 130
	MSD	1221765-07	ND	23.840	25.000	ug/L	1.8	95.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221765-07	ND	9.5100	10.000	ug/L		95.1		75 - 125
	MSD	1221765-07	ND	9.7600	10.000	ug/L	2.6	97.6		75 - 125
Toluene-d8 (Surrogate)	MS	1221765-07	ND	9.9600	10.000	ug/L		99.6		80 - 120
	MSD	1221765-07	ND	9.9400	10.000	ug/L	0.2	99.4		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221765-07	ND	9.4900	10.000	ug/L		94.9		80 - 120
	MSD	1221765-07	ND	9.6000	10.000	ug/L	1.2	96.0		80 - 120
QC Batch ID: BVK0984		Used client sample: Y - Description: MW-25-1, 11/09/2012 11:50								
Benzene	MS	1221765-10	ND	24.390	25.000	ug/L		97.6		70 - 130
	MSD	1221765-10	ND	23.650	25.000	ug/L	3.1	94.6	20	70 - 130
Bromodichloromethane	MS	1221765-10	ND	27.810	25.000	ug/L		111		70 - 130
	MSD	1221765-10	ND	27.520	25.000	ug/L	1.0	110	20	70 - 130
Chlorobenzene	MS	1221765-10	ND	23.470	25.000	ug/L		93.9		70 - 130
	MSD	1221765-10	ND	22.880	25.000	ug/L	2.5	91.5	20	70 - 130
Chloroethane	MS	1221765-10	ND	25.500	25.000	ug/L		102		70 - 130
	MSD	1221765-10	ND	24.580	25.000	ug/L	3.7	98.3	20	70 - 130
1,4-Dichlorobenzene	MS	1221765-10	ND	22.360	25.000	ug/L		89.4		70 - 130
	MSD	1221765-10	ND	21.510	25.000	ug/L	3.9	86.0	20	70 - 130
1,1-Dichloroethane	MS	1221765-10	ND	23.480	25.000	ug/L		93.9		70 - 130
	MSD	1221765-10	ND	22.900	25.000	ug/L	2.5	91.6	20	70 - 130

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0984		Used client sample: Y - Description: MW-25-1, 11/09/2012 11:50								
1,1-Dichloroethene	MS	1221765-10	ND	23.150	25.000	ug/L		92.6		70 - 130
	MSD	1221765-10	ND	22.650	25.000	ug/L	2.2	90.6	20	70 - 130
Toluene	MS	1221765-10	ND	25.640	25.000	ug/L		103		70 - 130
	MSD	1221765-10	ND	25.200	25.000	ug/L	1.7	101	20	70 - 130
Trichloroethene	MS	1221765-10	1.7800	25.430	25.000	ug/L		94.6		70 - 130
	MSD	1221765-10	1.7800	24.840	25.000	ug/L	2.3	92.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221765-10	ND	9.8400	10.000	ug/L		98.4		75 - 125
	MSD	1221765-10	ND	9.8200	10.000	ug/L	0.2	98.2		75 - 125
Toluene-d8 (Surrogate)	MS	1221765-10	ND	9.9600	10.000	ug/L		99.6		80 - 120
	MSD	1221765-10	ND	9.9600	10.000	ug/L	0	99.6		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221765-10	ND	9.4500	10.000	ug/L		94.5		80 - 120
	MSD	1221765-10	ND	9.5300	10.000	ug/L	0.8	95.3		80 - 120



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
-------------	--------------	-----------	-------	-----	-----	-----------

QC Batch ID: BVK0983

Chloroacetonitrile	BVK0983-BLK1	0	ug/L			
1-Chlorobutane	BVK0983-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK0983-BLK1	0	ug/L			
Methyl acrylate	BVK0983-BLK1	0	ug/L			
Nitrobenzene	BVK0983-BLK1	0	ug/L			
2-Nitropropane	BVK0983-BLK1	0	ug/L			

QC Batch ID: BVK0984

Chloroacetonitrile	BVK0984-BLK1	0	ug/L			
1-Chlorobutane	BVK0984-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK0984-BLK1	0	ug/L			
Methyl acrylate	BVK0984-BLK1	0	ug/L			
Nitrobenzene	BVK0984-BLK1	0	ug/L			
2-Nitropropane	BVK0984-BLK1	0	ug/L			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1205						
Perchlorate	BVK1205-BLK1	ND	ug/L	4.0	0.81	



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1205										
Perchlorate	BVK1205-BS1	LCS	9.5694	10.000	ug/L	95.7		85 - 115		



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK1205		Used client sample: Y - Description: MW-25-4, 11/09/2012 10:10								
Perchlorate	DUP	1221765-07	5.5926	5.7498		ug/L	2.8		15	
	MS	1221765-07	5.5926	15.555	10.101	ug/L		98.6		80 - 120
	MSD	1221765-07	5.5926	15.053	10.101	ug/L	3.3	93.7	15	80 - 120



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0817						
Hexavalent Chromium	BVK0817-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1360						
Total Recoverable Chromium	BVK1360-BLK1	ND	ug/L	3.0	0.50	



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK0817										
Hexavalent Chromium	BVK0817-BS1	LCS	0.050091	0.050000	mg/L	100		85 - 115		
QC Batch ID: BVK1360										
Total Recoverable Chromium	BVK1360-BS1	LCS	41.207	40.000	ug/L	103		85 - 115		



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK0817		Used client sample: Y - Description: MW-25-4, 11/09/2012 10:10								
Hexavalent Chromium	DUP	1221765-07	0.00090700	0.00094000		mg/L	3.6		10	J
	MS	1221765-07	0.00090700	0.052611	0.052632	mg/L		98.2	85 - 115	
	MSD	1221765-07	0.00090700	0.052651	0.052632	mg/L	0.1	98.3	10 85 - 115	
QC Batch ID: BVK1360		Used client sample: Y - Description: MW-25-4, 11/09/2012 10:10								
Total Recoverable Chromium	DUP	1221765-07	1.3980	1.2400		ug/L	12.0		20	J
	MS	1221765-07	1.3980	42.084	40.000	ug/L		102	70 - 130	
	MSD	1221765-07	1.3980	43.314	40.000	ug/L	2.9	105	20 70 - 130	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/26/2012 12:21
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/27/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1221814

Invoice ID: B134891

Enclosed are the results of analyses for samples received by the laboratory on 11/12/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form

BC Laboratories, Inc.

Page 1 of 2

***Required Fields**

Report To: Battelle MHTS
 Client: David Conner
 Attn: David Conner
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone: 614 424 5489 Fax: 614 458 5489
 Email Address: connerd@battelle.org
 Submission #: 12-21814

Project Description: JPL-GW Monitoring
 Project Code: 4Q12
 Sampler (s): Blaine Tech

Analysis Requested

Perchlorate 314.0					
Hexavalent Cr6 -7196 (mg/L)					
Chloride, Nitrate, Sulfate					
Orthophosphate 385.1					
Nitrite 353.2					
VOCs EPA 524.2	X				
Total Chromium 200.8 (ug/L)	X				
Perchlorate 314.0	X				
Hexavalent Cr6 -7196 (mg/L)	X				
Chloride, Nitrate, Sulfate	X				
Orthophosphate 385.1	X				
Nitrite 353.2	X				

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other
 Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush 5-7 Day Rush 10-14 Day Rush 15-30 Day Rush
 Lab TAT Approval: *Additional Charges May Apply

Matrix

Sample #	Sample Description	Date	Time	Matrix*
1	TB-6-11212	11-12-12	0800	AG
2	SB-2-11212		0830	
3	EB-6-11212		0830	
4	MW-12-5		0920	
5	MW-12-4		1005	
6	MW-12-3		1035	
7	MW-12-2		1110	
8	MW-12-1		1140	
9	MW-3-5		1245	
10	MW-3-4		1315	
11	MW-3-3		1345	↓

CHK BY: DISTRIBUTION
 Level IV
 START HOLDING TIME
 NO. NO. OP. SS.
 DC C12 300 WIDAS CUT

Billing
 Client: SAME
 Attn:
 Address:
 City:
 State:
 Zip:
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10
 Notes

Global ID:
 1. Received By: NICKIE (SC) 11/12/12 1600
 2. Relinquished By: NICKIE (SC) 11/12/12 1640
 3. Received By: NICKIE (SC) 11/12/12 1900

Cost Center:
 1. Relinquished By: NICKIE (SC) 11-12-12 1600
 2. Relinquished By: NICKIE (SC) 11/12/12 1640
 3. Relinquished By: NICKIE (SC) 11/12/12 1900

Comments:
 MBU Site
 CVX RCRA Geotracker 5 File (CA Default)
 Geotracker 2 file
 Other (Specify)
 *****PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)*****
 *****Also, please indicate which samples are level III and level IV CLP*****

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1221814 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 2

Submission #: 12-21814

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: QTR Thermometer ID: 207 Date/Time 11-12-12 1900
 Temperature: (A) 0.4 °C / (C) 0.0 °C Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL			B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS			C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL	A1	A3	A3	A3	A3	A3	A4	A3	A3	A3
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 11/12/12 1930
 A = Actual / C = Corrected



Chain of Custody and Cooler Receipt Form for 1221814 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 2 of 2

Submission #: 12-21814

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: QTPR Thermometer ID: 207 Date/Time 11-12-12
 Temperature: (A) 0.4 °C / (C) 0.0 °C Analyst Init JNW 1900

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B	B	B							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A.3	A.3	A.3							
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 11/12/12 1930



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221814-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-6-111212 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): TB-6-111212 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221814-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: SB-2-111212 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 08:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): SB-2-111212 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221814-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-6-111212 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): EB-6-111212 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221814-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 09:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-12-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221814-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 10:05 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-12-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221814-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 10:35 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-12-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221814-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 11:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-12-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221814-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 11:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-12-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221814-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 12:45 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-3-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221814-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 13:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-3-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221814-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 13:45 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-3-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1221814-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/12/2012 19:00 Sampling Date: 11/12/2012 14:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-3-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1221814-13	COC Number: ---	Receive Date: 11/12/2012 19:00
	Project Number: JPL-GW	Sampling Date: 11/12/2012 14:35
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-3-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 00000000000
		Location ID (FieldPoint): MW-3-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:



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505 King Ave.
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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-01	Client Sample Name: JPL-GW, TB-6-111212, 11/12/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-01	Client Sample Name: JPL-GW, TB-6-111212, 11/12/2012 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-01	Client Sample Name: JPL-GW, TB-6-111212, 11/12/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	84.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 19:51	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-01	Client Sample Name: JPL-GW, TB-6-111212, 11/12/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 19:51	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-02	Client Sample Name: JPL-GW, SB-2-111212, 11/12/2012 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-02	Client Sample Name: JPL-GW, SB-2-111212, 11/12/2012 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-02	Client Sample Name: JPL-GW, SB-2-111212, 11/12/2012 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 20:13	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-02	Client Sample Name: JPL-GW, SB-2-111212, 11/12/2012 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 20:13	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-03	Client Sample Name: JPL-GW, EB-6-111212, 11/12/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-03	Client Sample Name: JPL-GW, EB-6-111212, 11/12/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-03	Client Sample Name: JPL-GW, EB-6-111212, 11/12/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 20:36	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-03	Client Sample Name: JPL-GW, EB-6-111212, 11/12/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 20:36	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-03	Client Sample Name: JPL-GW, EB-6-111212, 11/12/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 12:15	LD1	IC6	1	BVK1422



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-03	Client Sample Name: JPL-GW, EB-6-111212, 11/12/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/13/12	11/13/12 08:03	TDC	KONE-1	1	BVK0941
2	EPA-200.8	11/20/12	11/21/12 16:59	SRM	PE-EL2	1	BVK1473



Battelle MHTS
505 King Ave.
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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-04	Client Sample Name: JPL-GW, MW-12-5, 11/12/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-04	Client Sample Name: JPL-GW, MW-12-5, 11/12/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-04	Client Sample Name: JPL-GW, MW-12-5, 11/12/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 20:58	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-04	Client Sample Name: JPL-GW, MW-12-5, 11/12/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 20:58	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-04	Client Sample Name: JPL-GW, MW-12-5, 11/12/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	0.96	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 12:29	LD1	IC6	1	BVK1422



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-04	Client Sample Name: JPL-GW, MW-12-5, 11/12/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0026	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/13/12	11/13/12 08:03	TDC	KONE-1	1	BVK0941
2	EPA-200.8	11/20/12	11/21/12 17:02	SRM	PE-EL2	1	BVK1473



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-05	Client Sample Name: JPL-GW, MW-12-4, 11/12/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.44	ug/L	0.50	0.18	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.58	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-05	Client Sample Name: JPL-GW, MW-12-4, 11/12/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.21	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-05	Client Sample Name: JPL-GW, MW-12-4, 11/12/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	84.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 21:21	MGC	MS-V5	1	BVK0985

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-05	Client Sample Name: JPL-GW, MW-12-4, 11/12/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 21:21	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-05	Client Sample Name: JPL-GW, MW-12-4, 11/12/2012 10:05:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.7	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 12:42	LD1	IC6	1	BVK1422

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-05	Client Sample Name: JPL-GW, MW-12-4, 11/12/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00078	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/13/12	11/13/12 08:03	TDC	KONE-1	1	BVK0941
2	EPA-200.8	11/20/12	11/21/12 17:05	SRM	PE-EL2	1	BVK1473



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-06	Client Sample Name: JPL-GW, MW-12-3, 11/12/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.69	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.48	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-06	Client Sample Name: JPL-GW, MW-12-3, 11/12/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-06	Client Sample Name: JPL-GW, MW-12-3, 11/12/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 21:43	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-06	Client Sample Name: JPL-GW, MW-12-3, 11/12/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 21:43	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-06	Client Sample Name: JPL-GW, MW-12-3, 11/12/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.5	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 12:55	LD1	IC6	1	BVK1422

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-06	Client Sample Name: JPL-GW, MW-12-3, 11/12/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00077	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/13/12	11/13/12 08:03	TDC	KONE-1	1	BVK0941
2	EPA-200.8	11/20/12	11/21/12 17:08	SRM	PE-EL2	1	BVK1473



Battelle MHTS
505 King Ave.
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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-07	Client Sample Name: JPL-GW, MW-12-2, 11/12/2012 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-07	Client Sample Name: JPL-GW, MW-12-2, 11/12/2012 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-07	Client Sample Name: JPL-GW, MW-12-2, 11/12/2012 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 16:29	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-07	Client Sample Name: JPL-GW, MW-12-2, 11/12/2012 11:10:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 16:29	MGC	MS-V5	1	BVK0985

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-07	Client Sample Name: JPL-GW, MW-12-2, 11/12/2012 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	6.7	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 13:09	LD1	IC6	1	BVK1422



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-07	Client Sample Name: JPL-GW, MW-12-2, 11/12/2012 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.0	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/13/12	11/13/12 08:03	TDC	KONE-1	1	BVK0941
2	EPA-200.8	11/20/12	11/21/12 17:11	SRM	PE-EL2	1	BVK1473



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-08	Client Sample Name: JPL-GW, MW-12-1, 11/12/2012 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	1221814-08	Client Sample Name:	JPL-GW, MW-12-1, 11/12/2012 11:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1	
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1	

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-08	Client Sample Name: JPL-GW, MW-12-1, 11/12/2012 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 22:06	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-08	Client Sample Name: JPL-GW, MW-12-1, 11/12/2012 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 22:06	MGC	MS-V5	1	BVK0985



Battelle MHTS
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Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-08	Client Sample Name: JPL-GW, MW-12-1, 11/12/2012 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 13:22	LD1	IC6	1	BVK1422



Battelle MHTS
505 King Ave.
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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-08	Client Sample Name: JPL-GW, MW-12-1, 11/12/2012 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/13/12	11/13/12 08:09	TDC	KONE-1	1	BVK0941
2	EPA-200.8	11/20/12	11/21/12 17:15	SRM	PE-EL2	1	BVK1473



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-09	Client Sample Name: JPL-GW, MW-3-5, 11/12/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.12	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-09	Client Sample Name: JPL-GW, MW-3-5, 11/12/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	0.10	ug/L	0.50	0.098	EPA-524.2	ND	J	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.070	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-09	Client Sample Name: JPL-GW, MW-3-5, 11/12/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 22:28	MGC	MS-V5	1	BVK0985

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-09	Client Sample Name: JPL-GW, MW-3-5, 11/12/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 22:28	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-09	Client Sample Name: JPL-GW, MW-3-5, 11/12/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 13:35	LD1	IC6	1	BVK1422



Battelle MHTS
505 King Ave.
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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-09	Client Sample Name: JPL-GW, MW-3-5, 11/12/2012 12:45:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	9.2	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/13/12	11/13/12 08:09	TDC	KONE-1	1	BVK0941
2	EPA-200.8	11/20/12	11/21/12 17:18	SRM	PE-EL2	1	BVK1473



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-10	Client Sample Name: JPL-GW, MW-3-4, 11/12/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-10	Client Sample Name: JPL-GW, MW-3-4, 11/12/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-10	Client Sample Name: JPL-GW, MW-3-4, 11/12/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 22:50	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-10	Client Sample Name: JPL-GW, MW-3-4, 11/12/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 22:50	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-10	Client Sample Name: JPL-GW, MW-3-4, 11/12/2012 1:15:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 13:48	LD1	IC6	1	BVK1422

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-10	Client Sample Name: JPL-GW, MW-3-4, 11/12/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	3.0	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/13/12	11/13/12 08:09	TDC	KONE-1	1	BVK0941
2	EPA-200.8	11/20/12	11/21/12 17:21	SRM	PE-EL2	1	BVK1473

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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-11	Client Sample Name: JPL-GW, MW-3-3, 11/12/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-11	Client Sample Name: JPL-GW, MW-3-3, 11/12/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-11	Client Sample Name: JPL-GW, MW-3-3, 11/12/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 23:13	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-11	Client Sample Name: JPL-GW, MW-3-3, 11/12/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 23:13	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-11	Client Sample Name: JPL-GW, MW-3-3, 11/12/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 14:28	LD1	IC6	1	BVK1422



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-11	Client Sample Name: JPL-GW, MW-3-3, 11/12/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0025	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/13/12	11/13/12 08:09	TDC	KONE-1	1	BVK0941
2	EPA-200.8	11/20/12	11/21/12 17:24	SRM	PE-EL2	1	BVK1473



Battelle MHTS
505 King Ave.
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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-12	Client Sample Name: JPL-GW, MW-3-2, 11/12/2012 2:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-12	Client Sample Name: JPL-GW, MW-3-2, 11/12/2012 2:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-12	Client Sample Name: JPL-GW, MW-3-2, 11/12/2012 2:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 23:35	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-12	Client Sample Name: JPL-GW, MW-3-2, 11/12/2012 2:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/14/12 23:35	MGC	MS-V5	1	BVK0985



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-12	Client Sample Name: JPL-GW, MW-3-2, 11/12/2012 2:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 14:42	LD1	IC6	1	BVK1422

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-12	Client Sample Name: JPL-GW, MW-3-2, 11/12/2012 2:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/13/12	11/13/12 08:27	TDC	KONE-1	1	BVK0941
2	EPA-200.8	11/20/12	11/21/12 18:18	SRM	PE-EL2	1	BVK1474



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-13	Client Sample Name: JPL-GW, MW-3-1, 11/12/2012 2:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-13	Client Sample Name: JPL-GW, MW-3-1, 11/12/2012 2:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221814-13	Client Sample Name: JPL-GW, MW-3-1, 11/12/2012 2:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 00:20	MGC	MS-V5	1	BVK0995



Battelle MHTS
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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221814-13	Client Sample Name: JPL-GW, MW-3-1, 11/12/2012 2:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 00:20	MGC	MS-V5	1	BVK0995



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221814-13	Client Sample Name: JPL-GW, MW-3-1, 11/12/2012 2:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/19/12	11/19/12 14:55	LD1	IC6	1	BVK1423



Battelle MHTS
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Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221814-13	Client Sample Name: JPL-GW, MW-3-1, 11/12/2012 2:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/13/12	11/13/12 08:27	TDC	KONE-1	1	BVK0942
2	EPA-200.8	11/20/12	11/21/12 16:34	SRM	PE-EL2	1	BVK1473



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0985						
Benzene	BVK0985-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK0985-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK0985-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK0985-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK0985-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK0985-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK0985-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK0985-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK0985-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK0985-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK0985-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK0985-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK0985-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK0985-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK0985-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK0985-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVK0985-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK0985-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK0985-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK0985-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK0985-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK0985-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK0985-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK0985-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK0985-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK0985-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK0985-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK0985-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK0985-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK0985-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK0985-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK0985-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK0985-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK0985-BLK1	ND	ug/L	0.50	0.14	

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0985						
trans-1,3-Dichloropropene	BVK0985-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK0985-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK0985-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK0985-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK0985-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK0985-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK0985-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK0985-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK0985-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK0985-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK0985-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BVK0985-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK0985-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK0985-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK0985-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK0985-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVK0985-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK0985-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK0985-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK0985-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK0985-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK0985-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK0985-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK0985-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK0985-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK0985-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK0985-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK0985-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK0985-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK0985-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK0985-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK0985-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK0985-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK0985-BLK1	ND	ug/L	4.0	0.97	

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVK0985

Ethyl t-butyl ether	BVK0985-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK0985-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK0985-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK0985-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK0985-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK0985-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK0985-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK0985-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK0985-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK0985-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK0985-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK0985-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK0985-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK0985-BLK1	103	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK0985-BLK1	98.8	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK0985-BLK1	87.4	%	80 - 120 (LCL - UCL)		

QC Batch ID: BVK0995

Benzene	BVK0995-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK0995-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK0995-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK0995-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK0995-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK0995-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK0995-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK0995-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK0995-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK0995-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK0995-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK0995-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK0995-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK0995-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK0995-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK0995-BLK1	ND	ug/L	0.50	0.15	

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0995						
Dibromochloromethane	BVK0995-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK0995-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK0995-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK0995-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK0995-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK0995-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK0995-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK0995-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK0995-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK0995-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK0995-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK0995-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK0995-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK0995-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK0995-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK0995-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK0995-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK0995-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BVK0995-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK0995-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK0995-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK0995-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK0995-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK0995-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK0995-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK0995-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK0995-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK0995-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK0995-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BVK0995-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK0995-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK0995-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK0995-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK0995-BLK1	ND	ug/L	0.50	0.19	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0995						
1,1,1-Trichloroethane	BVK0995-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK0995-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK0995-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK0995-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK0995-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK0995-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK0995-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK0995-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK0995-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK0995-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK0995-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK0995-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK0995-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK0995-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK0995-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK0995-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK0995-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK0995-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BVK0995-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK0995-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK0995-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK0995-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK0995-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK0995-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK0995-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK0995-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK0995-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK0995-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK0995-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK0995-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK0995-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK0995-BLK1	98.6	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK0995-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK0995-BLK1	85.3	%	80 - 120 (LCL - UCL)		

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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK0985										
Benzene	BVK0985-BS1	LCS	23.450	25.000	ug/L	93.8		70 - 130		
Bromodichloromethane	BVK0985-BS1	LCS	26.440	25.000	ug/L	106		70 - 130		
Chlorobenzene	BVK0985-BS1	LCS	22.520	25.000	ug/L	90.1		70 - 130		
Chloroethane	BVK0985-BS1	LCS	24.200	25.000	ug/L	96.8		70 - 130		
1,4-Dichlorobenzene	BVK0985-BS1	LCS	21.090	25.000	ug/L	84.4		70 - 130		
1,1-Dichloroethane	BVK0985-BS1	LCS	22.480	25.000	ug/L	89.9		70 - 130		
1,1-Dichloroethene	BVK0985-BS1	LCS	22.040	25.000	ug/L	88.2		70 - 130		
Toluene	BVK0985-BS1	LCS	24.660	25.000	ug/L	98.6		70 - 130		
Trichloroethene	BVK0985-BS1	LCS	25.040	25.000	ug/L	100		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK0985-BS1	LCS	9.4100	10.000	ug/L	94.1		75 - 125		
Toluene-d8 (Surrogate)	BVK0985-BS1	LCS	10.050	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK0985-BS1	LCS	9.4800	10.000	ug/L	94.8		80 - 120		
QC Batch ID: BVK0995										
Benzene	BVK0995-BS1	LCS	25.110	25.000	ug/L	100		70 - 130		
Bromodichloromethane	BVK0995-BS1	LCS	28.390	25.000	ug/L	114		70 - 130		
Chlorobenzene	BVK0995-BS1	LCS	24.060	25.000	ug/L	96.2		70 - 130		
Chloroethane	BVK0995-BS1	LCS	26.410	25.000	ug/L	106		70 - 130		
1,4-Dichlorobenzene	BVK0995-BS1	LCS	22.140	25.000	ug/L	88.6		70 - 130		
1,1-Dichloroethane	BVK0995-BS1	LCS	24.550	25.000	ug/L	98.2		70 - 130		
1,1-Dichloroethene	BVK0995-BS1	LCS	24.590	25.000	ug/L	98.4		70 - 130		
Toluene	BVK0995-BS1	LCS	26.290	25.000	ug/L	105		70 - 130		
Trichloroethene	BVK0995-BS1	LCS	27.880	25.000	ug/L	112		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK0995-BS1	LCS	9.8200	10.000	ug/L	98.2		75 - 125		
Toluene-d8 (Surrogate)	BVK0995-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK0995-BS1	LCS	9.5300	10.000	ug/L	95.3		80 - 120		



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Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0985		Used client sample: Y - Description: MW-12-2, 11/12/2012 11:10								
Benzene	MS	1221814-07	ND	24.350	25.000	ug/L		97.4		70 - 130
	MSD	1221814-07	ND	24.140	25.000	ug/L	0.9	96.6	20	70 - 130
Bromodichloromethane	MS	1221814-07	ND	27.790	25.000	ug/L		111		70 - 130
	MSD	1221814-07	ND	27.230	25.000	ug/L	2.0	109	20	70 - 130
Chlorobenzene	MS	1221814-07	ND	23.130	25.000	ug/L		92.5		70 - 130
	MSD	1221814-07	ND	23.360	25.000	ug/L	1.0	93.4	20	70 - 130
Chloroethane	MS	1221814-07	ND	25.160	25.000	ug/L		101		70 - 130
	MSD	1221814-07	ND	24.930	25.000	ug/L	0.9	99.7	20	70 - 130
1,4-Dichlorobenzene	MS	1221814-07	ND	21.920	25.000	ug/L		87.7		70 - 130
	MSD	1221814-07	ND	21.980	25.000	ug/L	0.3	87.9	20	70 - 130
1,1-Dichloroethane	MS	1221814-07	ND	23.260	25.000	ug/L		93.0		70 - 130
	MSD	1221814-07	ND	23.130	25.000	ug/L	0.6	92.5	20	70 - 130
1,1-Dichloroethene	MS	1221814-07	ND	23.050	25.000	ug/L		92.2		70 - 130
	MSD	1221814-07	ND	22.700	25.000	ug/L	1.5	90.8	20	70 - 130
Toluene	MS	1221814-07	ND	25.220	25.000	ug/L		101		70 - 130
	MSD	1221814-07	ND	25.060	25.000	ug/L	0.6	100	20	70 - 130
Trichloroethene	MS	1221814-07	ND	23.920	25.000	ug/L		95.7		70 - 130
	MSD	1221814-07	ND	23.790	25.000	ug/L	0.5	95.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221814-07	ND	9.5500	10.000	ug/L		95.5		75 - 125
	MSD	1221814-07	ND	9.4400	10.000	ug/L	1.2	94.4		75 - 125
Toluene-d8 (Surrogate)	MS	1221814-07	ND	10.010	10.000	ug/L		100		80 - 120
	MSD	1221814-07	ND	10.040	10.000	ug/L	0.3	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221814-07	ND	9.4400	10.000	ug/L		94.4		80 - 120
	MSD	1221814-07	ND	9.3500	10.000	ug/L	1.0	93.5		80 - 120
QC Batch ID: BVK0995		Used client sample: Y - Description: MW-3-1, 11/12/2012 14:35								
Benzene	MS	1221814-13	ND	24.760	25.000	ug/L		99.0		70 - 130
	MSD	1221814-13	ND	25.030	25.000	ug/L	1.1	100	20	70 - 130
Bromodichloromethane	MS	1221814-13	ND	27.180	25.000	ug/L		109		70 - 130
	MSD	1221814-13	ND	28.230	25.000	ug/L	3.8	113	20	70 - 130
Chlorobenzene	MS	1221814-13	ND	23.320	25.000	ug/L		93.3		70 - 130
	MSD	1221814-13	ND	23.890	25.000	ug/L	2.4	95.6	20	70 - 130
Chloroethane	MS	1221814-13	ND	25.210	25.000	ug/L		101		70 - 130
	MSD	1221814-13	ND	25.960	25.000	ug/L	2.9	104	20	70 - 130
1,4-Dichlorobenzene	MS	1221814-13	ND	22.030	25.000	ug/L		88.1		70 - 130
	MSD	1221814-13	ND	22.330	25.000	ug/L	1.4	89.3	20	70 - 130
1,1-Dichloroethane	MS	1221814-13	ND	23.770	25.000	ug/L		95.1		70 - 130
	MSD	1221814-13	ND	23.940	25.000	ug/L	0.7	95.8	20	70 - 130

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505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0995		Used client sample: Y - Description: MW-3-1, 11/12/2012 14:35								
1,1-Dichloroethene	MS	1221814-13	ND	23.220	25.000	ug/L		92.9		70 - 130
	MSD	1221814-13	ND	23.540	25.000	ug/L	1.4	94.2	20	70 - 130
Toluene	MS	1221814-13	ND	25.500	25.000	ug/L		102		70 - 130
	MSD	1221814-13	ND	25.750	25.000	ug/L	1.0	103	20	70 - 130
Trichloroethene	MS	1221814-13	ND	23.690	25.000	ug/L		94.8		70 - 130
	MSD	1221814-13	ND	24.270	25.000	ug/L	2.4	97.1	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221814-13	ND	9.8000	10.000	ug/L		98.0		75 - 125
	MSD	1221814-13	ND	9.6300	10.000	ug/L	1.7	96.3		75 - 125
Toluene-d8 (Surrogate)	MS	1221814-13	ND	10.030	10.000	ug/L		100		80 - 120
	MSD	1221814-13	ND	10.000	10.000	ug/L	0.3	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221814-13	ND	9.4200	10.000	ug/L		94.2		80 - 120
	MSD	1221814-13	ND	9.3400	10.000	ug/L	0.9	93.4		80 - 120

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Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVK0985

Chloroacetonitrile	BVK0985-BLK1	0	ug/L			
1-Chlorobutane	BVK0985-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK0985-BLK1	0	ug/L			
Methyl acrylate	BVK0985-BLK1	0	ug/L			
Nitrobenzene	BVK0985-BLK1	0	ug/L			
2-Nitropropane	BVK0985-BLK1	0	ug/L			

QC Batch ID: BVK0995

Chloroacetonitrile	BVK0995-BLK1	0	ug/L			
1-Chlorobutane	BVK0995-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK0995-BLK1	0	ug/L			
Methyl acrylate	BVK0995-BLK1	0	ug/L			
Nitrobenzene	BVK0995-BLK1	0	ug/L			
2-Nitropropane	BVK0995-BLK1	0	ug/L			



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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1422						
Perchlorate	BVK1422-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: BVK1423						
Perchlorate	BVK1423-BLK1	ND	ug/L	4.0	0.81	



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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1422										
Perchlorate	BVK1422-BS1	LCS	10.374	10.000	ug/L	104		85	115	
QC Batch ID: BVK1423										
Perchlorate	BVK1423-BS1	LCS	10.710	10.000	ug/L	107		85	115	



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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK1422		Used client sample: Y - Description: MW-12-2, 11/12/2012 11:10								
Perchlorate	DUP	1221814-07	6.7428	7.0702		ug/L	4.7		15	
	MS	1221814-07	6.7428	15.451	10.101	ug/L		86.2		80 - 120
	MSD	1221814-07	6.7428	16.246	10.101	ug/L	5.0	94.1	15	80 - 120
QC Batch ID: BVK1423		Used client sample: Y - Description: MW-3-1, 11/12/2012 14:35								
Perchlorate	DUP	1221814-13	ND	ND		ug/L			15	
	MS	1221814-13	ND	8.1923	10.101	ug/L		81.1		80 - 120
	MSD	1221814-13	ND	8.1803	10.101	ug/L	0.1	81.0	15	80 - 120

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Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK0941						
Hexavalent Chromium	BVK0941-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK0942						
Hexavalent Chromium	BVK0942-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1473						
Total Recoverable Chromium	BVK1473-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BVK1474						
Total Recoverable Chromium	BVK1474-BLK1	ND	ug/L	3.0	0.50	



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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVK0941											
Hexavalent Chromium	BVK0941-BS1	LCS	0.048743	0.050000	mg/L	97.5		85 - 115			
QC Batch ID: BVK0942											
Hexavalent Chromium	BVK0942-BS1	LCS	0.049141	0.050000	mg/L	98.3		85 - 115			
QC Batch ID: BVK1473											
Total Recoverable Chromium	BVK1473-BS1	LCS	41.778	40.000	ug/L	104		85 - 115			
QC Batch ID: BVK1474											
Total Recoverable Chromium	BVK1474-BS1	LCS	43.212	40.000	ug/L	108		85 - 115			
	BVK1474-BSD1	LCSD	41.043	40.000	ug/L	103	5.1	85 - 115		20	



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Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK0941		Used client sample: Y - Description: EB-6-111212, 11/12/2012 08:30								
Hexavalent Chromium	DUP	1221814-03	ND	ND		mg/L			10	
	MS	1221814-03	ND	0.051698	0.052632	mg/L		98.2		85 - 115
	MSD	1221814-03	ND	0.053613	0.052632	mg/L	3.6	102	10	85 - 115
QC Batch ID: BVK0942		Used client sample: Y - Description: MW-3-1, 11/12/2012 14:35								
Hexavalent Chromium	DUP	1221814-13	ND	ND		mg/L			10	
	MS	1221814-13	ND	0.051535	0.052632	mg/L		97.9		85 - 115
	MSD	1221814-13	ND	0.051684	0.052632	mg/L	0.3	98.2	10	85 - 115
QC Batch ID: BVK1473		Used client sample: Y - Description: MW-3-1, 11/12/2012 14:35								
Total Recoverable Chromium	DUP	1221814-13	ND	ND		ug/L			20	
	MS	1221814-13	ND	41.314	40.000	ug/L		103		70 - 130
	MSD	1221814-13	ND	40.371	40.000	ug/L	2.3	101	20	70 - 130
QC Batch ID: BVK1474		Used client sample: N								
Total Recoverable Chromium	DUP	1221866-01	14.300	13.865		ug/L	3.1		20	
	MS	1221866-01	14.300	53.404	40.000	ug/L		97.8		70 - 130
	MSD	1221866-01	14.300	51.595	40.000	ug/L	3.4	93.2	20	70 - 130

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/27/2012 15:17
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/28/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1221961

Invoice ID: B134984

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form

Page 1 of 2

Report To: Battelle MHTS
Client: David Conner
Attn: David Conner
Street Address: 505 King Ave.
City: Columbus **State:** OH **Zip:** 43201
Phone: (614) 424-5489 **Fax:** (614) 458-5489
Email Address: connerd@battelle.org
Submission #: 12-21961

Project Description: JPL-GW Monitoring
Project Code: 4Q12
Sampler(s): Blaine Tech

Analysis Requested:
 Total Chromium 200.8 (ug/L)
 Perchlorate 314.0
 Hexavalent Cr6-7196 (mg/L)
 Chloride, Nitrate, Sulfate
 Orthophosphate 365.1
 Nitrite 353.2

Billing: Client: SAME
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Notes:
 CRK BY DISTRIBUTION
 SS
 SUB-OUT
 Level IV
 START HOLDING TIME
 NO. NO. OP SS
 DC CL BOD MBAS COT

Sample #	Sample Description	Date	Time	Matrix*
1	TB-7-11312	11-13-12	0630	AQ
2	EB-7-11312		0700	
3	MAW-23-5		0730	
4	MAW-23-4		0800	
5	MAW-23-3		0830	
6	MAW-23-2		0900	
7	MAW-23-1		0930	
8	MAW-24-5		1050	
9	MAW-24-4		1130	
10	MAW-24-3		1200	
11	MAW-24-2		1235	

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____ *Additional Charges May Apply

Cost Center:
 1. Relinquished By: _____ Date: 11-13-12 Time: 1545
 2. Relinquished By: _____ Date: 11/13/12 Time: 1615
 3. Relinquished By: _____ Date: 11/13/12 Time: 2000

Global ID:
 1. Received By: _____ Date: 11/13/12 Time: 1545
 2. Received By: _____ Date: 11/13/12 Time: 1615
 3. Received By: _____ Date: 11-13-12 Time: 2000

Comments:
 *****PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)*****
 *****Also, please indicate which samples are level III and level IV CLP*****

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Chain of Custody and Cooler Receipt Form for 1221961 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 2

Submission #: 12-21961

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: 0422 Thermometer ID: 207 Date/Time 11-13-12
 Temperature: (A) 0.7 °C / (C) 2.9 °C Analyst Init JW 2015

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A.3	A.3	A.3	A.3	A.3	A.3	A.3	A.3	A.3
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: JW Date/Time: 11/13/12 2:15
 = Actual / C = Corrected



COOLER RECEIPT FORM

Rev. No. 13 08/17/12 Page 2 Of 2

Chain of Custody and Cooler Receipt Form for 1221961 Page 4 of 4

BC LABORATORIES INC. Submission #: 12-21961

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, Box, None, Other.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes/No.

All samples received? Yes/No. All samples containers intact? Yes/No. Description(s) match COC? Yes/No.

COC Received: YES/NO. Emissivity: 0.95. Container: 0422. Thermometer ID: 207. Date/Time: 11-13-12. Temperature: (A) 2.7 °C / (C) 2.9 °C. Analyst Init: JFW 2015.

Table with columns: SAMPLE CONTAINERS, SAMPLE NUMBERS (1-10). Rows include: QT GENERAL MINERAL/ GENERAL PHYSICAL, PT PE UNPRESERVED, QT INORGANIC CHEMICAL METALS, PT INORGANIC CHEMICAL METALS, PT CYANIDE, PT NITROGEN FORMS, PT TOTAL SULFIDE, 2oz. NITRATE / NITRITE, PT TOTAL ORGANIC CARBON, PT TOX, PT CHEMICAL OXYGEN DEMAND, PIA PHENOLICS, 40ml VOA VIAL TRAVEL BLANK, 40ml VOA VIAL (A.3, A.3, A.3), QT EPA 413.1, 413.2, 418.1, PT ODOR, RADIOLOGICAL, BACTERIOLOGICAL, 40 ml VOA VIAL-304, QT EPA 508/608/8080, QT EPA 515.1/8150, QT EPA 525, QT EPA 525 TRAVEL BLANK, 100ml EPA 547, 100ml EPA 531.1, QT EPA 548, QT EPA 549, QT EPA 632, QT EPA 8015M, QT AMBER, 8 OZ. JAR, 32 OZ. JAR, SOIL SLEEVE, PCB VIAL, PLASTIC BAG, FERROUS IRON, ENCORE, SMART KIT.

Comments: Sample Numbering Completed By: JFW Date/Time: 11/13/12 2:15 A = Actual / C = Corrected



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221961-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-7-111312 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 06:50 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): TB-7-111312 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1221961-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-7-111312 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): EB-7-111312 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221961-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 07:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-23-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221961-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-23-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221961-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-23-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221961-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-23-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221961-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-23-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221961-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 10:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-24-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221961-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-24-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221961-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-24-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221961-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 12:35 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-24-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1221961-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUPE-3-4Q12 Sampled By: Blaine Tech of BAT	Receive Date: 11/13/2012 20:00 Sampling Date: 11/13/2012 12:35 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): DUPE-3-4Q12 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1221961-13	COC Number: ---	Receive Date: 11/13/2012 20:00
	Project Number: JPL-GW	Sampling Date: 11/13/2012 13:50
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-24-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 00000000000
		Location ID (FieldPoint): MW-24-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-01	Client Sample Name: JPL-GW, TB-7-111312, 11/13/2012 6:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-01	Client Sample Name: JPL-GW, TB-7-111312, 11/13/2012 6:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-01	Client Sample Name: JPL-GW, TB-7-111312, 11/13/2012 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 03:19	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-01	Client Sample Name: JPL-GW, TB-7-111312, 11/13/2012 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 03:19	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-02	Client Sample Name: JPL-GW, EB-7-111312, 11/13/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-02	Client Sample Name: JPL-GW, EB-7-111312, 11/13/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-02	Client Sample Name: JPL-GW, EB-7-111312, 11/13/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 03:42	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-02	Client Sample Name: JPL-GW, EB-7-111312, 11/13/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 03:42	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-02	Client Sample Name: JPL-GW, EB-7-111312, 11/13/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 09:18	LD1	IC6	1	BVK1483



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-02	Client Sample Name: JPL-GW, EB-7-111312, 11/13/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/13/12	11/13/12 22:32	LS1	KONE-1	1	BVK1013
2	EPA-200.8	11/21/12	11/26/12 15:36	SRM	PE-EL2	1	BVK1561



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-03	Client Sample Name: JPL-GW, MW-23-5, 11/13/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-03	Client Sample Name: JPL-GW, MW-23-5, 11/13/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	0.12	ug/L	0.50	0.098	EPA-524.2	ND	J	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.30	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-03	Client Sample Name: JPL-GW, MW-23-5, 11/13/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 04:04	MGC	MS-V5	1	BVK1060

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Battelle MHTS
505 King Ave.
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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-03	Client Sample Name: JPL-GW, MW-23-5, 11/13/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 04:04	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-03	Client Sample Name: JPL-GW, MW-23-5, 11/13/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 09:31	LD1	IC6	1	BVK1483

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Battelle MHTS
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Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-03	Client Sample Name: JPL-GW, MW-23-5, 11/13/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/13/12	11/13/12 22:32	LS1	KONE-1	1	BVK1013
2	EPA-200.8	11/21/12	11/26/12 15:39	SRM	PE-EL2	1	BVK1561



Battelle MHTS
505 King Ave.
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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-04	Client Sample Name: JPL-GW, MW-23-4, 11/13/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-04	Client Sample Name: JPL-GW, MW-23-4, 11/13/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-04	Client Sample Name: JPL-GW, MW-23-4, 11/13/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 04:26	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-04	Client Sample Name: JPL-GW, MW-23-4, 11/13/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 04:26	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-04	Client Sample Name: JPL-GW, MW-23-4, 11/13/2012 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 09:44	LD1	IC6	1	BVK1483



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-04	Client Sample Name: JPL-GW, MW-23-4, 11/13/2012 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0029	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	3.0	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/13/12	11/13/12 22:32	LS1	KONE-1	1	BVK1013
2	EPA-200.8	11/21/12	11/26/12 15:42	SRM	PE-EL2	1	BVK1561



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-05	Client Sample Name: JPL-GW, MW-23-3, 11/13/2012 8:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-05	Client Sample Name: JPL-GW, MW-23-3, 11/13/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-05	Client Sample Name: JPL-GW, MW-23-3, 11/13/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 08:15	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-05	Client Sample Name: JPL-GW, MW-23-3, 11/13/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 08:15	MGC	MS-V5	1	BVK1060



Battelle MHTS
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Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-05	Client Sample Name: JPL-GW, MW-23-3, 11/13/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.5	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 09:58	LD1	IC6	1	BVK1483



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-05	Client Sample Name: JPL-GW, MW-23-3, 11/13/2012 8:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0030	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-7196	11/13/12	11/13/12 22:32	LS1	KONE-1	1	BVK1013	
2	EPA-200.8	11/21/12	11/26/12 15:45	SRM	PE-EL2	1	BVK1561	



Battelle MHTS
505 King Ave.
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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-06	Client Sample Name: JPL-GW, MW-23-2, 11/13/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.42	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.15	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-06	Client Sample Name: JPL-GW, MW-23-2, 11/13/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.32	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.64	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	V11	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-06	Client Sample Name: JPL-GW, MW-23-2, 11/13/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 02:57	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-06	Client Sample Name: JPL-GW, MW-23-2, 11/13/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 02:57	MGC	MS-V5	1	BVK1060

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-06	Client Sample Name: JPL-GW, MW-23-2, 11/13/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.5	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 10:11	LD1	IC6	1	BVK1483

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-06	Client Sample Name: JPL-GW, MW-23-2, 11/13/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0017	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	1.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/13/12	11/13/12 22:32	LS1	KONE-1	1	BVK1013
2	EPA-200.8	11/21/12	11/26/12 15:48	SRM	PE-EL2	1	BVK1561



Battelle MHTS
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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-07	Client Sample Name: JPL-GW, MW-23-1, 11/13/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.31	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.19	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-07	Client Sample Name: JPL-GW, MW-23-1, 11/13/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.34	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.99	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-07	Client Sample Name: JPL-GW, MW-23-1, 11/13/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 08:38	MGC	MS-V5	1	BVK1060



Battelle MHTS
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Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-07	Client Sample Name: JPL-GW, MW-23-1, 11/13/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 08:38	MGC	MS-V5	1	BVK1060



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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-07	Client Sample Name: JPL-GW, MW-23-1, 11/13/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 10:24	LD1	IC6	1	BVK1483



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-07	Client Sample Name: JPL-GW, MW-23-1, 11/13/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	7.5	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/14/12	11/14/12 08:09	TDC	KONE-1	1	BVK1015
2	EPA-200.8	11/26/12	11/26/12 16:57	SRM	PE-EL2	1	BVK1665



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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-08	Client Sample Name: JPL-GW, MW-24-5, 11/13/2012 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-08	Client Sample Name: JPL-GW, MW-24-5, 11/13/2012 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-08	Client Sample Name: JPL-GW, MW-24-5, 11/13/2012 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 09:00	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-08	Client Sample Name: JPL-GW, MW-24-5, 11/13/2012 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 09:00	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-08	Client Sample Name: JPL-GW, MW-24-5, 11/13/2012 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 10:38	LD1	IC6	1	BVK1483



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-08	Client Sample Name: JPL-GW, MW-24-5, 11/13/2012 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0024	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.9	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/14/12	11/14/12 07:52	TDC	KONE-1	1	BVK1015
2	EPA-200.8	11/26/12	11/26/12 17:00	SRM	PE-EL2	1	BVK1665



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-09	Client Sample Name: JPL-GW, MW-24-4, 11/13/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-09	Client Sample Name: JPL-GW, MW-24-4, 11/13/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	0.10	ug/L	0.50	0.098	EPA-524.2	ND	J	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.15	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-09	Client Sample Name: JPL-GW, MW-24-4, 11/13/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	84.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 09:23	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-09	Client Sample Name: JPL-GW, MW-24-4, 11/13/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 09:23	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-09	Client Sample Name: JPL-GW, MW-24-4, 11/13/2012 11:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 10:51	LD1	IC6	1	BVK1483



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-09	Client Sample Name: JPL-GW, MW-24-4, 11/13/2012 11:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.63	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/14/12	11/14/12 07:52	TDC	KONE-1	1	BVK1015
2	EPA-200.8	11/26/12	11/26/12 17:04	SRM	PE-EL2	1	BVK1665



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-10	Client Sample Name: JPL-GW, MW-24-3, 11/13/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.13	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-10	Client Sample Name: JPL-GW, MW-24-3, 11/13/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-10	Client Sample Name: JPL-GW, MW-24-3, 11/13/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 09:45	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-10	Client Sample Name: JPL-GW, MW-24-3, 11/13/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 09:45	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-10	Client Sample Name: JPL-GW, MW-24-3, 11/13/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 11:31	LD1	IC6	1	BVK1483



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-10	Client Sample Name: JPL-GW, MW-24-3, 11/13/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.52	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/14/12	11/14/12 07:52	TDC	KONE-1	1	BVK1015
2	EPA-200.8	11/26/12	11/26/12 17:07	SRM	PE-EL2	1	BVK1665



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-11	Client Sample Name: JPL-GW, MW-24-2, 11/13/2012 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	0.20	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.41	ug/L	0.50	0.18	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.42	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.16	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-11	Client Sample Name: JPL-GW, MW-24-2, 11/13/2012 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.24	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.11	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-11	Client Sample Name: JPL-GW, MW-24-2, 11/13/2012 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 10:08	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-11	Client Sample Name: JPL-GW, MW-24-2, 11/13/2012 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 10:08	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-11	Client Sample Name: JPL-GW, MW-24-2, 11/13/2012 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	8.7	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 11:44	LD1	IC6	1	BVK1483



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-11	Client Sample Name: JPL-GW, MW-24-2, 11/13/2012 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0024	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	3.1	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/14/12	11/14/12 07:52	TDC	KONE-1	1	BVK1015
2	EPA-200.8	11/26/12	11/26/12 17:10	SRM	PE-EL2	1	BVK1665



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-12	Client Sample Name: JPL-GW, DUPE-3-4Q12, 11/13/2012 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	0.14	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.18	ug/L	0.50	0.18	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.32	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.11	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-12		Client Sample Name: JPL-GW, DUPE-3-4Q12, 11/13/2012 12:35:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.16	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-12	Client Sample Name: JPL-GW, DUPE-3-4Q12, 11/13/2012 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 10:30	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-12	Client Sample Name: JPL-GW, DUPE-3-4Q12, 11/13/2012 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 10:30	MGC	MS-V5	1	BVK1060



Battelle MHTS
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Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-12	Client Sample Name: JPL-GW, DUPE-3-4Q12, 11/13/2012 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	8.4	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/20/12	11/20/12 11:58	LD1	IC6	1	BVK1484



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-12	Client Sample Name: JPL-GW, DUPE-3-4Q12, 11/13/2012 12:35:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0024	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/14/12	11/14/12 08:15	TDC	KONE-1	1	BVK1015
2	EPA-200.8	11/26/12	11/26/12 17:13	SRM	PE-EL2	1	BVK1665



Battelle MHTS
505 King Ave.
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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-13	Client Sample Name: JPL-GW, MW-24-1, 11/13/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	4.8	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	5.1	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	2.7	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-13	Client Sample Name: JPL-GW, MW-24-1, 11/13/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1221961-13	Client Sample Name: JPL-GW, MW-24-1, 11/13/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 10:53	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1221961-13	Client Sample Name: JPL-GW, MW-24-1, 11/13/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/14/12	11/15/12 10:53	MGC	MS-V5	1	BVK1060



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1221961-13	Client Sample Name: JPL-GW, MW-24-1, 11/13/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	60	mg/L	0.50	0.066	EPA-300.0	ND		1
Nitrate as N	1.5	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	39	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	0.0077	mg/L	0.020	0.0026	EPA-365.1	ND	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/12	11/14/12 09:57	LD1	IC5	1	BVK1033
2	EPA-353.2	11/14/12	11/14/12 08:45	TDC	KONE-1	1	BVK1011
3	EPA-314.0	11/20/12	11/20/12 12:11	LD1	IC6	1	BVK1484
4	EPA-365.1	11/14/12	11/14/12 09:03	TDC	KONE-1	1	BVK1012

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505 King Ave.
Columbus, OH 43201

Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1221961-13	Client Sample Name: JPL-GW, MW-24-1, 11/13/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00080	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	4.2	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/14/12	11/14/12 08:15	TDC	KONE-1	1	BVK1016
2	EPA-200.8	11/26/12	11/26/12 17:16	SRM	PE-EL2	1	BVK1665



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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1060						
Benzene	BVK1060-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK1060-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK1060-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK1060-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK1060-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK1060-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK1060-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK1060-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK1060-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK1060-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK1060-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK1060-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK1060-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK1060-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK1060-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK1060-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVK1060-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK1060-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK1060-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK1060-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK1060-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK1060-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK1060-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK1060-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK1060-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK1060-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK1060-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK1060-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK1060-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK1060-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK1060-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK1060-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK1060-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK1060-BLK1	ND	ug/L	0.50	0.14	

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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1060						
trans-1,3-Dichloropropene	BVK1060-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK1060-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK1060-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK1060-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK1060-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK1060-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK1060-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK1060-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK1060-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK1060-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK1060-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVK1060-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK1060-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK1060-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK1060-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK1060-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVK1060-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK1060-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK1060-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK1060-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK1060-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK1060-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK1060-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK1060-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK1060-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK1060-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK1060-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK1060-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK1060-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK1060-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK1060-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK1060-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK1060-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK1060-BLK1	ND	ug/L	4.0	0.97	

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Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1060						
Ethyl t-butyl ether	BVK1060-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK1060-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK1060-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK1060-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK1060-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK1060-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK1060-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK1060-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK1060-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK1060-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK1060-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK1060-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK1060-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK1060-BLK1	99.3	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK1060-BLK1	99.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK1060-BLK1	86.7	%	80 - 120 (LCL - UCL)		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVK1060											
Benzene	BVK1060-BS1	LCS	24.790	25.000	ug/L	99.2		70	130		
Bromodichloromethane	BVK1060-BS1	LCS	27.240	25.000	ug/L	109		70	130		
Chlorobenzene	BVK1060-BS1	LCS	23.240	25.000	ug/L	93.0		70	130		
Chloroethane	BVK1060-BS1	LCS	25.240	25.000	ug/L	101		70	130		
1,4-Dichlorobenzene	BVK1060-BS1	LCS	21.310	25.000	ug/L	85.2		70	130		
1,1-Dichloroethane	BVK1060-BS1	LCS	23.470	25.000	ug/L	93.9		70	130		
1,1-Dichloroethene	BVK1060-BS1	LCS	23.020	25.000	ug/L	92.1		70	130		
Toluene	BVK1060-BS1	LCS	25.450	25.000	ug/L	102		70	130		
Trichloroethene	BVK1060-BS1	LCS	27.340	25.000	ug/L	109		70	130		
1,2-Dichloroethane-d4 (Surrogate)	BVK1060-BS1	LCS	9.8900	10.000	ug/L	98.9		75	125		
Toluene-d8 (Surrogate)	BVK1060-BS1	LCS	9.9800	10.000	ug/L	99.8		80	120		
4-Bromofluorobenzene (Surrogate)	BVK1060-BS1	LCS	9.3500	10.000	ug/L	93.5		80	120		



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Reported: 11/28/2012 15:09
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Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK1060		Used client sample: Y - Description: MW-23-2, 11/13/2012 09:00								
Benzene	MS	1221961-06	ND	24.620	25.000	ug/L		98.5		70 - 130
	MSD	1221961-06	ND	23.260	25.000	ug/L	5.7	93.0	20	70 - 130
Bromodichloromethane	MS	1221961-06	ND	28.400	25.000	ug/L		114		70 - 130
	MSD	1221961-06	ND	27.430	25.000	ug/L	3.5	110	20	70 - 130
Chlorobenzene	MS	1221961-06	ND	23.300	25.000	ug/L		93.2		70 - 130
	MSD	1221961-06	ND	22.260	25.000	ug/L	4.6	89.0	20	70 - 130
Chloroethane	MS	1221961-06	ND	25.290	25.000	ug/L		101		70 - 130
	MSD	1221961-06	ND	23.900	25.000	ug/L	5.7	95.6	20	70 - 130
1,4-Dichlorobenzene	MS	1221961-06	ND	22.090	25.000	ug/L		88.4		70 - 130
	MSD	1221961-06	ND	21.300	25.000	ug/L	3.6	85.2	20	70 - 130
1,1-Dichloroethane	MS	1221961-06	0.15000	23.750	25.000	ug/L		94.4		70 - 130
	MSD	1221961-06	0.15000	22.650	25.000	ug/L	4.7	90.0	20	70 - 130
1,1-Dichloroethene	MS	1221961-06	ND	23.220	25.000	ug/L		92.9		70 - 130
	MSD	1221961-06	ND	22.110	25.000	ug/L	4.9	88.4	20	70 - 130
Toluene	MS	1221961-06	ND	25.400	25.000	ug/L		102		70 - 130
	MSD	1221961-06	ND	24.690	25.000	ug/L	2.8	98.8	20	70 - 130
Trichloroethene	MS	1221961-06	0.64000	24.330	25.000	ug/L		94.8		70 - 130
	MSD	1221961-06	0.64000	23.400	25.000	ug/L	3.9	91.0	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1221961-06	ND	9.8800	10.000	ug/L		98.8		75 - 125
	MSD	1221961-06	ND	9.7300	10.000	ug/L	1.5	97.3		75 - 125
Toluene-d8 (Surrogate)	MS	1221961-06	ND	10.010	10.000	ug/L		100		80 - 120
	MSD	1221961-06	ND	10.030	10.000	ug/L	0.2	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1221961-06	ND	9.6400	10.000	ug/L		96.4		80 - 120
	MSD	1221961-06	ND	9.3600	10.000	ug/L	2.9	93.6		80 - 120

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Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1060						
Chloroacetonitrile	BVK1060-BLK1	0	ug/L			
1-Chlorobutane	BVK1060-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK1060-BLK1	0	ug/L			
Methyl acrylate	BVK1060-BLK1	0	ug/L			
Nitrobenzene	BVK1060-BLK1	0	ug/L			
2-Nitropropane	BVK1060-BLK1	0	ug/L			



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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1011						
Nitrite as N	BVK1011-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BVK1012						
ortho-Phosphate as P	BVK1012-BLK1	ND	mg/L	0.020	0.0026	
QC Batch ID: BVK1033						
Chloride	BVK1033-BLK1	ND	mg/L	0.50	0.066	
Nitrate as N	BVK1033-BLK1	ND	mg/L	0.10	0.021	
Sulfate	BVK1033-BLK1	ND	mg/L	1.0	0.12	
QC Batch ID: BVK1483						
Perchlorate	BVK1483-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: BVK1484						
Perchlorate	BVK1484-BLK1	ND	ug/L	4.0	0.81	



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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK1011										
Nitrite as N	BVK1011-BS1	LCS	0.48306	0.50000	mg/L	96.6		90	110	
QC Batch ID: BVK1012										
ortho-Phosphate as P	BVK1012-BS1	LCS	0.20394	0.20000	mg/L	102		90	110	
QC Batch ID: BVK1033										
Chloride	BVK1033-BS1	LCS	49.616	50.000	mg/L	99.2		90	110	
Nitrate as N	BVK1033-BS1	LCS	5.1160	5.0000	mg/L	102		90	110	
Sulfate	BVK1033-BS1	LCS	99.331	100.00	mg/L	99.3		90	110	
QC Batch ID: BVK1483										
Perchlorate	BVK1483-BS1	LCS	10.095	10.000	ug/L	101		85	115	
QC Batch ID: BVK1484										
Perchlorate	BVK1484-BS1	LCS	9.3524	10.000	ug/L	93.5		85	115	

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK1011		Used client sample: Y - Description: MW-24-1, 11/13/2012 13:50								
Nitrite as N	DUP	1221961-13	ND	ND		mg/L			10	
	MS	1221961-13	ND	0.50799	0.52632	mg/L		96.5		90 - 110
	MSD	1221961-13	ND	0.51035	0.52632	mg/L	0.5	97.0	10	90 - 110
QC Batch ID: BVK1012		Used client sample: Y - Description: MW-24-1, 11/13/2012 13:50								
ortho-Phosphate as P	DUP	1221961-13	0.0076990	0.0082640		mg/L	7.1		10	J
	MS	1221961-13	0.0076990	0.22273	0.21053	mg/L		102		90 - 110
	MSD	1221961-13	0.0076990	0.25514	0.21053	mg/L	13.6	118	10	90 - 110 Q02, Q03
QC Batch ID: BVK1033		Used client sample: N								
Chloride	DUP	1221980-01	23.303	23.581		mg/L	1.2		10	
	MS	1221980-01	23.303	76.737	50.505	mg/L		106		80 - 120
	MSD	1221980-01	23.303	76.547	50.505	mg/L	0.2	105	10	80 - 120
Nitrate as N	DUP	1221980-01	1.6920	1.8840		mg/L	10.7		10	Q01
	MS	1221980-01	1.6920	7.2131	5.0505	mg/L		109		80 - 120
	MSD	1221980-01	1.6920	6.9525	5.0505	mg/L	3.7	104	10	80 - 120
Sulfate	DUP	1221980-01	31.493	31.911		mg/L	1.3		10	
	MS	1221980-01	31.493	140.11	101.01	mg/L		108		80 - 120
	MSD	1221980-01	31.493	139.04	101.01	mg/L	0.8	106	10	80 - 120
QC Batch ID: BVK1483		Used client sample: Y - Description: MW-23-2, 11/13/2012 09:00								
Perchlorate	DUP	1221961-06	2.4876	2.5863		ug/L	3.9		15	J
	MS	1221961-06	2.4876	11.076	10.101	ug/L		85.0		80 - 120
	MSD	1221961-06	2.4876	11.260	10.101	ug/L	1.6	86.8	15	80 - 120
QC Batch ID: BVK1484		Used client sample: Y - Description: DUPE-3-4Q12, 11/13/2012 12:35								
Perchlorate	DUP	1221961-12	8.4331	8.5152		ug/L	1.0		15	
	MS	1221961-12	8.4331	17.538	10.101	ug/L		90.1		80 - 120
	MSD	1221961-12	8.4331	17.443	10.101	ug/L	0.5	89.2	15	80 - 120

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Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1013						
Hexavalent Chromium	BVK1013-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1015						
Hexavalent Chromium	BVK1015-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1016						
Hexavalent Chromium	BVK1016-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1561						
Total Recoverable Chromium	BVK1561-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BVK1665						
Total Recoverable Chromium	BVK1665-BLK1	ND	ug/L	3.0	0.50	



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Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1013										
Hexavalent Chromium	BVK1013-BS1	LCS	0.049319	0.050000	mg/L	98.6		85 - 115		
QC Batch ID: BVK1015										
Hexavalent Chromium	BVK1015-BS1	LCS	0.048722	0.050000	mg/L	97.4		85 - 115		
QC Batch ID: BVK1016										
Hexavalent Chromium	BVK1016-BS1	LCS	0.049397	0.050000	mg/L	98.8		85 - 115		
QC Batch ID: BVK1561										
Total Recoverable Chromium	BVK1561-BS1	LCS	43.321	40.000	ug/L	108		85 - 115		
QC Batch ID: BVK1665										
Total Recoverable Chromium	BVK1665-BS1	LCS	41.607	40.000	ug/L	104		85 - 115		



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505 King Ave.
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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK1013		Used client sample: Y - Description: EB-7-111312, 11/13/2012 07:00								
Hexavalent Chromium	DUP	1221961-02	ND	ND		mg/L			10	
	MS	1221961-02	ND	0.053102	0.052632	mg/L		101		85 - 115
	MSD	1221961-02	ND	0.053372	0.052632	mg/L	0.5	101	10	85 - 115
QC Batch ID: BVK1015		Used client sample: N								
Hexavalent Chromium	DUP	1221918-02	0.021611	0.021708		mg/L	0.4		10	
	MS	1221918-02	0.021611	0.071903	0.052632	mg/L		95.6		85 - 115
	MSD	1221918-02	0.021611	0.071918	0.052632	mg/L	0.0	95.6	10	85 - 115
QC Batch ID: BVK1016		Used client sample: Y - Description: MW-24-1, 11/13/2012 13:50								
Hexavalent Chromium	DUP	1221961-13	0.00079800	0.00081600		mg/L	2.2		10	J
	MS	1221961-13	0.00079800	0.049844	0.052632	mg/L		93.2		85 - 115
	MSD	1221961-13	0.00079800	0.049643	0.052632	mg/L	0.4	92.8	10	85 - 115
QC Batch ID: BVK1561		Used client sample: N								
Total Recoverable Chromium	DUP	1221892-01	3.4610	3.4230		ug/L	1.1		20	
	MS	1221892-01	3.4610	44.099	40.000	ug/L		102		70 - 130
	MSD	1221892-01	3.4610	44.658	40.000	ug/L	1.3	103	20	70 - 130
QC Batch ID: BVK1665		Used client sample: N								
Total Recoverable Chromium	DUP	1222536-01	ND	ND		ug/L			20	
	MS	1222536-01	ND	50.350	40.000	ug/L		126		70 - 130 J
	MSD	1222536-01	ND	50.350	40.000	ug/L	0	126	20	70 - 130 J



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Reported: 11/28/2012 15:09
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- Q01 Sample precision is not within the control limits.
- Q02 Matrix spike precision is not within the control limits.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/29/2012

David Conner

Battelle MHTS
505 King Ave.
Columbus, OH 43201

Project: JPL- GW Monitoring Wells
BC Work Order: 1222079
Invoice ID: B135082

Enclosed are the results of analyses for samples received by the laboratory on 11/14/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Chain of Custody and Cooler Receipt Form for 1222079 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 2
 Submission #: 1222079

SHIPPING INFORMATION Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.95 Container: QTP Thermometer ID: 207 Date/Time 11-14-12
 Temperature: (A) 2.6 °C / (C) 28 °C Analyst Init JKW 2000

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A3	A3	A3	A3	A3	A4	A3	A3	A3
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL, BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: JKW Date/Time: 11-14-12 210
 A = Actual / C = Corrected

15-W:\DOCS\WordPerfect\LAB DOCS\FORMS\SAMECR13J



Chain of Custody and Cooler Receipt Form for 1222079 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 4 of 2

Submission #: 1222079

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, Box, None, Other.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes/No.

All samples received? Yes/No. All samples containers intact? Yes/No. Description(s) match COC? Yes/No.

COC Received YES/NO. Emissivity: 0.95. Container: Dope. Thermometer ID: 207. Date/Time: 11-14-12. Analyst Init: JNW 2000. Temperature: (A) 2.0 °C / (C) 2.8 °C.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: JNW Date/Time: 11-14-12 2110. A = Actual / C = Corrected



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1222079-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-8-111412 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 06:50 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): TB-8-111412 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1222079-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-8-111412 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): EB-8-111412 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1222079-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 07:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-11-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---



Battelle MHTS
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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1222079-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-11-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1222079-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-11-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1222079-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUPE-4-4Q12 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): DUPE-4-4Q12 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---



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505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1222079-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-11-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1222079-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-11-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1222079-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-21-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---



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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1222079-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-4 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-21-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1222079-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-3 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-21-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1222079-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-2 Sampled By: Blaine Tech of BAT	Receive Date: 11/14/2012 19:45 Sampling Date: 11/14/2012 12:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-21-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---



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Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1222079-13	COC Number: ---	Receive Date: 11/14/2012 19:45
	Project Number: JPL-GW	Sampling Date: 11/14/2012 13:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-21-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 00000000000
		Location ID (FieldPoint): MW-21-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:



Battelle MHTS
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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-01	Client Sample Name: JPL-GW, TB-8-111412, 11/14/2012 6:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-01	Client Sample Name: JPL-GW, TB-8-111412, 11/14/2012 6:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-01	Client Sample Name: JPL-GW, TB-8-111412, 11/14/2012 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 12:00	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-01	Client Sample Name: JPL-GW, TB-8-111412, 11/14/2012 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 12:00	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-02	Client Sample Name: JPL-GW, EB-8-111412, 11/14/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-02	Client Sample Name: JPL-GW, EB-8-111412, 11/14/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-02	Client Sample Name: JPL-GW, EB-8-111412, 11/14/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 12:22	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-02	Client Sample Name: JPL-GW, EB-8-111412, 11/14/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 12:22	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-02	Client Sample Name: JPL-GW, EB-8-111412, 11/14/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 13:13	LD1	IC6	1	BVK1728



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-02	Client Sample Name: JPL-GW, EB-8-111412, 11/14/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/15/12	11/15/12 07:42	TDC	KONE-1	1	BVK1137
2	EPA-200.8	11/27/12	11/27/12 15:48	SRM	PE-EL2	1	BVK1785



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-03	Client Sample Name: JPL-GW, MW-11-5, 11/14/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-03	Client Sample Name: JPL-GW, MW-11-5, 11/14/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.13	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-03	Client Sample Name: JPL-GW, MW-11-5, 11/14/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 12:45	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-03	Client Sample Name: JPL-GW, MW-11-5, 11/14/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 12:45	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-03	Client Sample Name: JPL-GW, MW-11-5, 11/14/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 13:26	LD1	IC6	1	BVK1728



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-03	Client Sample Name: JPL-GW, MW-11-5, 11/14/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.85	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/15/12	11/15/12 07:42	TDC	KONE-1	1	BVK1137
2	EPA-200.8	11/27/12	11/27/12 15:57	SRM	PE-EL2	1	BVK1785



Battelle MHTS
505 King Ave.
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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-04	Client Sample Name: JPL-GW, MW-11-4, 11/14/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-04	Client Sample Name: JPL-GW, MW-11-4, 11/14/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.42	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	0.14	ug/L	0.50	0.093	EPA-524.2	ND	J	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-04	Client Sample Name: JPL-GW, MW-11-4, 11/14/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 13:07	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-04	Client Sample Name: JPL-GW, MW-11-4, 11/14/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 13:07	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-04	Client Sample Name: JPL-GW, MW-11-4, 11/14/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 14:06	LD1	IC6	1	BVK1728



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-04	Client Sample Name: JPL-GW, MW-11-4, 11/14/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/15/12	11/15/12 07:42	TDC	KONE-1	1	BVK1137
2	EPA-200.8	11/27/12	11/27/12 16:00	SRM	PE-EL2	1	BVK1785



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-05	Client Sample Name: JPL-GW, MW-11-3, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-05	Client Sample Name: JPL-GW, MW-11-3, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.24	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.19	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	0.11	ug/L	0.50	0.093	EPA-524.2	ND	J	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-05	Client Sample Name: JPL-GW, MW-11-3, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 13:29	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-05	Client Sample Name: JPL-GW, MW-11-3, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 13:29	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-05	Client Sample Name: JPL-GW, MW-11-3, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 14:19	LD1	IC6	1	BVK1728



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-05	Client Sample Name: JPL-GW, MW-11-3, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/15/12	11/15/12 07:42	TDC	KONE-1	1	BVK1137
2	EPA-200.8	11/27/12	11/27/12 16:04	SRM	PE-EL2	1	BVK1785



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-06	Client Sample Name: JPL-GW, DUPE-4-4Q12, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-06	Client Sample Name: JPL-GW, DUPE-4-4Q12, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.24	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.19	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	0.11	ug/L	0.50	0.093	EPA-524.2	ND	J	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-06	Client Sample Name: JPL-GW, DUPE-4-4Q12, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 13:52	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-06	Client Sample Name: JPL-GW, DUPE-4-4Q12, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 13:52	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-06	Client Sample Name: JPL-GW, DUPE-4-4Q12, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 14:33	LD1	IC6	1	BVK1728



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-06	Client Sample Name: JPL-GW, DUPE-4-4Q12, 11/14/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/15/12	11/15/12 08:00	TDC	KONE-1	1	BVK1137
2	EPA-200.8	11/27/12	11/27/12 16:07	SRM	PE-EL2	1	BVK1785



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-07	Client Sample Name: JPL-GW, MW-11-2, 11/14/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.12	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-07	Client Sample Name: JPL-GW, MW-11-2, 11/14/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-07	Client Sample Name: JPL-GW, MW-11-2, 11/14/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 11:38	MGC	MS-V5	1	BVK1129



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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-07	Client Sample Name: JPL-GW, MW-11-2, 11/14/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 11:38	MGC	MS-V5	1	BVK1129



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Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-07	Client Sample Name: JPL-GW, MW-11-2, 11/14/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 12:20	LD1	IC6	1	BVK1728



Battelle MHTS
505 King Ave.
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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-07	Client Sample Name: JPL-GW, MW-11-2, 11/14/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/15/12	11/15/12 08:00	TDC	KONE-1	1	BVK1137
2	EPA-200.8	11/27/12	11/27/12 15:29	SRM	PE-EL2	1	BVK1785



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-08	Client Sample Name: JPL-GW, MW-11-1, 11/14/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-08	Client Sample Name: JPL-GW, MW-11-1, 11/14/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-08	Client Sample Name: JPL-GW, MW-11-1, 11/14/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 14:14	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-08	Client Sample Name: JPL-GW, MW-11-1, 11/14/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 14:14	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-08	Client Sample Name: JPL-GW, MW-11-1, 11/14/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	19	mg/L	0.50	0.066	EPA-300.0	ND		1
Nitrate as N	0.48	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	40	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	0.011	mg/L	0.050	0.010	EPA-353.2	ND	J	2
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	0.037	mg/L	0.020	0.0026	EPA-365.1	0.0059		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/12	11/15/12 01:40	LS1	IC5	1	BVK1110
2	EPA-353.2	11/15/12	11/15/12 09:01	TDC	KONE-1	1	BVK1141
3	EPA-314.0	11/27/12	11/27/12 14:46	LD1	IC6	1	BVK1728
4	EPA-365.1	11/15/12	11/15/12 09:22	TDC	KONE-1	1	BVK1142



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-08	Client Sample Name: JPL-GW, MW-11-1, 11/14/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/15/12	11/15/12 08:00	TDC	KONE-1	1	BVK1137
2	EPA-200.8	11/27/12	11/27/12 16:10	SRM	PE-EL2	1	BVK1785



Battelle MHTS
505 King Ave.
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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-09	Client Sample Name: JPL-GW, MW-21-5, 11/14/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	5.2	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.10	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-09	Client Sample Name: JPL-GW, MW-21-5, 11/14/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.66	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-09	Client Sample Name: JPL-GW, MW-21-5, 11/14/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 14:37	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-09	Client Sample Name: JPL-GW, MW-21-5, 11/14/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 14:37	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-09	Client Sample Name: JPL-GW, MW-21-5, 11/14/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.2	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 14:59	LD1	IC6	1	BVK1728



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-09	Client Sample Name: JPL-GW, MW-21-5, 11/14/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0014	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	0.65	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/15/12	11/15/12 08:00	TDC	KONE-1	1	BVK1137
2	EPA-200.8	11/27/12	11/27/12 16:13	SRM	PE-EL2	1	BVK1785



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-10	Client Sample Name: JPL-GW, MW-21-4, 11/14/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	7.0	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.12	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-10	Client Sample Name: JPL-GW, MW-21-4, 11/14/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.81	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.12	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-10	Client Sample Name: JPL-GW, MW-21-4, 11/14/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 14:59	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-10	Client Sample Name: JPL-GW, MW-21-4, 11/14/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 14:59	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-10	Client Sample Name: JPL-GW, MW-21-4, 11/14/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.4	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 15:13	LD1	IC6	1	BVK1728



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-10	Client Sample Name: JPL-GW, MW-21-4, 11/14/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0017	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	0.76	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/15/12	11/15/12 08:06	TDC	KONE-1	1	BVK1137
2	EPA-200.8	11/27/12	11/27/12 16:16	SRM	PE-EL2	1	BVK1785



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-11	Client Sample Name: JPL-GW, MW-21-3, 11/14/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	4.0	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.14	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.94	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-11	Client Sample Name: JPL-GW, MW-21-3, 11/14/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.21	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	5.9	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.80	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-11	Client Sample Name: JPL-GW, MW-21-3, 11/14/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 15:22	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-11	Client Sample Name: JPL-GW, MW-21-3, 11/14/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 15:22	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-11	Client Sample Name: JPL-GW, MW-21-3, 11/14/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.6	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 15:26	LS1	IC6	1	BVK1728



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-11	Client Sample Name: JPL-GW, MW-21-3, 11/14/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0018	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/15/12	11/15/12 08:06	TDC	KONE-1	1	BVK1137
2	EPA-200.8	11/27/12	11/27/12 16:19	SRM	PE-EL2	1	BVK1785



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-12	Client Sample Name: JPL-GW, MW-21-2, 11/14/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	3.0	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.35	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-12	Client Sample Name: JPL-GW, MW-21-2, 11/14/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.20	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	2.6	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.24	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-12	Client Sample Name: JPL-GW, MW-21-2, 11/14/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	84.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 15:44	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-12	Client Sample Name: JPL-GW, MW-21-2, 11/14/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 15:44	MGC	MS-V5	1	BVK1129



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-12	Client Sample Name: JPL-GW, MW-21-2, 11/14/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.5	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 15:39	LS1	IC6	1	BVK1729



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-12	Client Sample Name: JPL-GW, MW-21-2, 11/14/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0011	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/15/12	11/15/12 08:06	TDC	KONE-1	1	BVK1138
2	EPA-200.8	11/27/12	11/27/12 18:03	SRM	PE-EL2	1	BVK1786



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-13	Client Sample Name: JPL-GW, MW-21-1, 11/14/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	1.2	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.17	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-13	Client Sample Name: JPL-GW, MW-21-1, 11/14/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	1.1	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.14	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222079-13	Client Sample Name: JPL-GW, MW-21-1, 11/14/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 20:36	MGC	MS-V5	1	BVK1130



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222079-13	Client Sample Name: JPL-GW, MW-21-1, 11/14/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/15/12	11/15/12 20:36	MGC	MS-V5	1	BVK1130



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222079-13	Client Sample Name: JPL-GW, MW-21-1, 11/14/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.7	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/27/12	11/27/12 16:46	LS1	IC6	1	BVK1729



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222079-13	Client Sample Name: JPL-GW, MW-21-1, 11/14/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	0.71	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/15/12	11/15/12 08:22	TDC	KONE-1	1	BVK1138
2	EPA-200.8	11/27/12	11/27/12 19:03	SRM	PE-EL2	1	BVK1786



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1129						
Benzene	BVK1129-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK1129-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK1129-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK1129-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK1129-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK1129-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK1129-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK1129-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK1129-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK1129-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK1129-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK1129-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK1129-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK1129-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK1129-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK1129-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVK1129-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK1129-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK1129-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK1129-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK1129-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK1129-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK1129-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK1129-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK1129-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK1129-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK1129-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK1129-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK1129-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK1129-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK1129-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK1129-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK1129-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK1129-BLK1	ND	ug/L	0.50	0.14	

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Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1129						
trans-1,3-Dichloropropene	BVK1129-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK1129-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK1129-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK1129-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK1129-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK1129-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK1129-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK1129-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK1129-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK1129-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK1129-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2-Tetrachloroethane	BVK1129-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK1129-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK1129-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK1129-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK1129-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVK1129-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK1129-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK1129-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK1129-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK1129-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK1129-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK1129-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK1129-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK1129-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK1129-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK1129-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK1129-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK1129-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK1129-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK1129-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK1129-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK1129-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK1129-BLK1	ND	ug/L	4.0	0.97	

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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVK1129

Ethyl t-butyl ether	BVK1129-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK1129-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK1129-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK1129-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK1129-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK1129-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK1129-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK1129-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK1129-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK1129-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK1129-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK1129-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK1129-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK1129-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK1129-BLK1	98.1	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK1129-BLK1	87.8	%	80 - 120 (LCL - UCL)		

QC Batch ID: BVK1130

Benzene	BVK1130-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK1130-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK1130-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK1130-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK1130-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK1130-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK1130-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK1130-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK1130-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK1130-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK1130-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK1130-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK1130-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK1130-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK1130-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK1130-BLK1	ND	ug/L	0.50	0.15	



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1130						
Dibromochloromethane	BVK1130-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK1130-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK1130-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK1130-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK1130-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK1130-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK1130-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK1130-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK1130-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK1130-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK1130-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK1130-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK1130-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK1130-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK1130-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK1130-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK1130-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK1130-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BVK1130-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK1130-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK1130-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK1130-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK1130-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK1130-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK1130-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK1130-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK1130-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK1130-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK1130-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BVK1130-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK1130-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK1130-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK1130-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK1130-BLK1	ND	ug/L	0.50	0.19	

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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1130						
1,1,1-Trichloroethane	BVK1130-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK1130-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK1130-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK1130-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK1130-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK1130-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK1130-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK1130-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK1130-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK1130-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK1130-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK1130-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK1130-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK1130-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK1130-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK1130-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK1130-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK1130-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BVK1130-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK1130-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK1130-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK1130-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK1130-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK1130-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK1130-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK1130-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK1130-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK1130-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK1130-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK1130-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK1130-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK1130-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK1130-BLK1	99.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK1130-BLK1	86.2	%	80 - 120 (LCL - UCL)		

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Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK1129										
Benzene	BVK1129-BS1	LCS	24.330	25.000	ug/L	97.3		70 - 130		
Bromodichloromethane	BVK1129-BS1	LCS	27.260	25.000	ug/L	109		70 - 130		
Chlorobenzene	BVK1129-BS1	LCS	23.250	25.000	ug/L	93.0		70 - 130		
Chloroethane	BVK1129-BS1	LCS	25.130	25.000	ug/L	101		70 - 130		
1,4-Dichlorobenzene	BVK1129-BS1	LCS	21.640	25.000	ug/L	86.6		70 - 130		
1,1-Dichloroethane	BVK1129-BS1	LCS	23.350	25.000	ug/L	93.4		70 - 130		
1,1-Dichloroethene	BVK1129-BS1	LCS	23.600	25.000	ug/L	94.4		70 - 130		
Toluene	BVK1129-BS1	LCS	25.460	25.000	ug/L	102		70 - 130		
Trichloroethene	BVK1129-BS1	LCS	25.360	25.000	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK1129-BS1	LCS	10.050	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	BVK1129-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK1129-BS1	LCS	9.4600	10.000	ug/L	94.6		80 - 120		
QC Batch ID: BVK1130										
Benzene	BVK1130-BS1	LCS	23.950	25.000	ug/L	95.8		70 - 130		
Bromodichloromethane	BVK1130-BS1	LCS	27.230	25.000	ug/L	109		70 - 130		
Chlorobenzene	BVK1130-BS1	LCS	22.130	25.000	ug/L	88.5		70 - 130		
Chloroethane	BVK1130-BS1	LCS	24.200	25.000	ug/L	96.8		70 - 130		
1,4-Dichlorobenzene	BVK1130-BS1	LCS	20.870	25.000	ug/L	83.5		70 - 130		
1,1-Dichloroethane	BVK1130-BS1	LCS	22.700	25.000	ug/L	90.8		70 - 130		
1,1-Dichloroethene	BVK1130-BS1	LCS	23.060	25.000	ug/L	92.2		70 - 130		
Toluene	BVK1130-BS1	LCS	24.620	25.000	ug/L	98.5		70 - 130		
Trichloroethene	BVK1130-BS1	LCS	25.250	25.000	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK1130-BS1	LCS	9.9800	10.000	ug/L	99.8		75 - 125		
Toluene-d8 (Surrogate)	BVK1130-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK1130-BS1	LCS	9.2700	10.000	ug/L	92.7		80 - 120		



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Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK1129		Used client sample: Y - Description: MW-11-2, 11/14/2012 09:30								
Benzene	MS	1222079-07	ND	24.070	25.000	ug/L		96.3		70 - 130
	MSD	1222079-07	ND	24.000	25.000	ug/L	0.3	96.0	20	70 - 130
Bromodichloromethane	MS	1222079-07	ND	28.010	25.000	ug/L		112		70 - 130
	MSD	1222079-07	ND	27.790	25.000	ug/L	0.8	111	20	70 - 130
Chlorobenzene	MS	1222079-07	ND	23.830	25.000	ug/L		95.3		70 - 130
	MSD	1222079-07	ND	23.180	25.000	ug/L	2.8	92.7	20	70 - 130
Chloroethane	MS	1222079-07	ND	24.840	25.000	ug/L		99.4		70 - 130
	MSD	1222079-07	ND	24.090	25.000	ug/L	3.1	96.4	20	70 - 130
1,4-Dichlorobenzene	MS	1222079-07	ND	22.190	25.000	ug/L		88.8		70 - 130
	MSD	1222079-07	ND	21.860	25.000	ug/L	1.5	87.4	20	70 - 130
1,1-Dichloroethane	MS	1222079-07	ND	23.230	25.000	ug/L		92.9		70 - 130
	MSD	1222079-07	ND	22.550	25.000	ug/L	3.0	90.2	20	70 - 130
1,1-Dichloroethene	MS	1222079-07	ND	23.630	25.000	ug/L		94.5		70 - 130
	MSD	1222079-07	ND	23.240	25.000	ug/L	1.7	93.0	20	70 - 130
Toluene	MS	1222079-07	ND	26.010	25.000	ug/L		104		70 - 130
	MSD	1222079-07	ND	25.100	25.000	ug/L	3.6	100	20	70 - 130
Trichloroethene	MS	1222079-07	ND	24.300	25.000	ug/L		97.2		70 - 130
	MSD	1222079-07	ND	23.960	25.000	ug/L	1.4	95.8	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1222079-07	ND	9.6500	10.000	ug/L		96.5		75 - 125
	MSD	1222079-07	ND	10.140	10.000	ug/L	5.0	101		75 - 125
Toluene-d8 (Surrogate)	MS	1222079-07	ND	10.170	10.000	ug/L		102		80 - 120
	MSD	1222079-07	ND	10.130	10.000	ug/L	0.4	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1222079-07	ND	9.5200	10.000	ug/L		95.2		80 - 120
	MSD	1222079-07	ND	9.6800	10.000	ug/L	1.7	96.8		80 - 120
QC Batch ID: BVK1130		Used client sample: Y - Description: MW-21-1, 11/14/2012 13:00								
Benzene	MS	1222079-13	ND	24.250	25.000	ug/L		97.0		70 - 130
	MSD	1222079-13	ND	24.200	25.000	ug/L	0.2	96.8	20	70 - 130
Bromodichloromethane	MS	1222079-13	ND	28.450	25.000	ug/L		114		70 - 130
	MSD	1222079-13	ND	29.210	25.000	ug/L	2.6	117	20	70 - 130
Chlorobenzene	MS	1222079-13	ND	23.010	25.000	ug/L		92.0		70 - 130
	MSD	1222079-13	ND	23.280	25.000	ug/L	1.2	93.1	20	70 - 130
Chloroethane	MS	1222079-13	ND	24.570	25.000	ug/L		98.3		70 - 130
	MSD	1222079-13	ND	24.790	25.000	ug/L	0.9	99.2	20	70 - 130
1,4-Dichlorobenzene	MS	1222079-13	ND	21.130	25.000	ug/L		84.5		70 - 130
	MSD	1222079-13	ND	21.910	25.000	ug/L	3.6	87.6	20	70 - 130
1,1-Dichloroethane	MS	1222079-13	ND	23.260	25.000	ug/L		93.0		70 - 130
	MSD	1222079-13	ND	23.320	25.000	ug/L	0.3	93.3	20	70 - 130

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK1130		Used client sample: Y - Description: MW-21-1, 11/14/2012 13:00								
1,1-Dichloroethene	MS	1222079-13	ND	23.450	25.000	ug/L		93.8		70 - 130
	MSD	1222079-13	ND	23.490	25.000	ug/L	0.2	94.0	20	70 - 130
Toluene	MS	1222079-13	ND	24.780	25.000	ug/L		99.1		70 - 130
	MSD	1222079-13	ND	25.670	25.000	ug/L	3.5	103	20	70 - 130
Trichloroethene	MS	1222079-13	0.14000	23.960	25.000	ug/L		95.3		70 - 130
	MSD	1222079-13	0.14000	24.570	25.000	ug/L	2.5	97.7	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1222079-13	ND	10.140	10.000	ug/L		101		75 - 125
	MSD	1222079-13	ND	9.8300	10.000	ug/L	3.1	98.3		75 - 125
Toluene-d8 (Surrogate)	MS	1222079-13	ND	9.8100	10.000	ug/L		98.1		80 - 120
	MSD	1222079-13	ND	10.040	10.000	ug/L	2.3	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1222079-13	ND	9.1400	10.000	ug/L		91.4		80 - 120
	MSD	1222079-13	ND	9.2200	10.000	ug/L	0.9	92.2		80 - 120

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
-------------	--------------	-----------	-------	-----	-----	-----------

QC Batch ID: BVK1129

Chloroacetonitrile	BVK1129-BLK1	0	ug/L			
1-Chlorobutane	BVK1129-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK1129-BLK1	0	ug/L			
Methyl acrylate	BVK1129-BLK1	0	ug/L			
Nitrobenzene	BVK1129-BLK1	0	ug/L			
2-Nitropropane	BVK1129-BLK1	0	ug/L			

QC Batch ID: BVK1130

Chloroacetonitrile	BVK1130-BLK1	0	ug/L			
1-Chlorobutane	BVK1130-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK1130-BLK1	0	ug/L			
Methyl acrylate	BVK1130-BLK1	0	ug/L			
Nitrobenzene	BVK1130-BLK1	0	ug/L			
2-Nitropropane	BVK1130-BLK1	0	ug/L			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1110						
Chloride	BVK1110-BLK1	ND	mg/L	0.50	0.066	
Nitrate as N	BVK1110-BLK1	ND	mg/L	0.10	0.021	
Sulfate	BVK1110-BLK1	ND	mg/L	1.0	0.12	
QC Batch ID: BVK1141						
Nitrite as N	BVK1141-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BVK1142						
ortho-Phosphate as P	BVK1142-BLK1	0.0059130	mg/L	0.020	0.0026	J
QC Batch ID: BVK1728						
Perchlorate	BVK1728-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: BVK1729						
Perchlorate	BVK1729-BLK1	ND	ug/L	4.0	0.81	



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505 King Ave.
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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab
							RPD	RPD	
QC Batch ID: BVK1110									
Chloride	BVK1110-BS1	LCS	51.213	50.000	mg/L	102		90 - 110	
Nitrate as N	BVK1110-BS1	LCS	5.4660	5.0000	mg/L	109		90 - 110	
Sulfate	BVK1110-BS1	LCS	103.06	100.00	mg/L	103		90 - 110	
QC Batch ID: BVK1141									
Nitrite as N	BVK1141-BS1	LCS	0.50129	0.50000	mg/L	100		90 - 110	
QC Batch ID: BVK1142									
ortho-Phosphate as P	BVK1142-BS1	LCS	0.21203	0.20000	mg/L	106		90 - 110	
QC Batch ID: BVK1728									
Perchlorate	BVK1728-BS1	LCS	11.080	10.000	ug/L	111		85 - 115	
QC Batch ID: BVK1729									
Perchlorate	BVK1729-BS1	LCS	10.277	10.000	ug/L	103		85 - 115	



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505 King Ave.
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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK1110		Used client sample: N								
Chloride	DUP	1222049-01	5.6740	5.6180		mg/L	1.0		10	
	MS	1222049-01	5.6740	56.880	50.505	mg/L		101		80 - 120
	MSD	1222049-01	5.6740	56.940	50.505	mg/L	0.1	102	10	80 - 120
Nitrate as N	DUP	1222049-01	6.7390	6.7670		mg/L	0.4		10	
	MS	1222049-01	6.7390	11.979	5.0505	mg/L		104		80 - 120
	MSD	1222049-01	6.7390	11.782	5.0505	mg/L	1.7	99.8	10	80 - 120
Sulfate	DUP	1222049-01	48.721	49.089		mg/L	0.8		10	
	MS	1222049-01	48.721	156.83	101.01	mg/L		107		80 - 120
	MSD	1222049-01	48.721	156.46	101.01	mg/L	0.2	107	10	80 - 120
QC Batch ID: BVK1141		Used client sample: Y - Description: MW-11-1, 11/14/2012 10:00								
Nitrite as N	DUP	1222079-08	0.011425	ND		mg/L			10	
	MS	1222079-08	0.011425	0.50673	0.52632	mg/L		94.1		90 - 110
	MSD	1222079-08	0.011425	0.51054	0.52632	mg/L	0.7	94.8	10	90 - 110
QC Batch ID: BVK1142		Used client sample: Y - Description: MW-11-1, 11/14/2012 10:00								
ortho-Phosphate as P	DUP	1222079-08	0.036960	0.034882		mg/L	5.8		10	
	MS	1222079-08	0.036960	0.24885	0.21053	mg/L		101		90 - 110
	MSD	1222079-08	0.036960	0.24955	0.21053	mg/L	0.3	101	10	90 - 110
QC Batch ID: BVK1728		Used client sample: Y - Description: MW-11-2, 11/14/2012 09:30								
Perchlorate	DUP	1222079-07	ND	ND		ug/L			15	
	MS	222079-07RE'	ND	99.698	101.01	ug/L		98.7		80 - 120
	MSD	222079-07RE'	ND	97.563	101.01	ug/L	2.2	96.6	15	80 - 120
QC Batch ID: BVK1729		Used client sample: Y - Description: MW-21-1, 11/14/2012 13:00								
Perchlorate	DUP	1222079-13	1.6843	1.7007		ug/L	1.0		15	J
	MS	1222079-13	1.6843	9.8764	10.101	ug/L		81.1		80 - 120
	MSD	1222079-13	1.6843	9.5734	10.101	ug/L	3.1	78.1	15	80 - 120 Q03

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1137						
Hexavalent Chromium	BVK1137-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1138						
Hexavalent Chromium	BVK1138-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1785						
Total Recoverable Chromium	BVK1785-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BVK1786						
Total Recoverable Chromium	BVK1786-BLK1	ND	ug/L	3.0	0.50	



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505 King Ave.
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Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1137										
Hexavalent Chromium	BVK1137-BS1	LCS	0.049909	0.050000	mg/L	99.8		85	115	
QC Batch ID: BVK1138										
Hexavalent Chromium	BVK1138-BS1	LCS	0.049584	0.050000	mg/L	99.2		85	115	
QC Batch ID: BVK1785										
Total Recoverable Chromium	BVK1785-BS1	LCS	41.488	40.000	ug/L	104		85	115	
QC Batch ID: BVK1786										
Total Recoverable Chromium	BVK1786-BS1	LCS	44.804	40.000	ug/L	112		85	115	



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505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK1137		Used client sample: Y - Description: MW-11-2, 11/14/2012 09:30								
Hexavalent Chromium	DUP	1222079-07	ND	ND		mg/L			10	
	MS	1222079-07	ND	0.051858	0.052632	mg/L		98.5		85 - 115
	MSD	1222079-07	ND	0.052282	0.052632	mg/L	0.8	99.3	10	85 - 115
QC Batch ID: BVK1138		Used client sample: Y - Description: MW-21-1, 11/14/2012 13:00								
Hexavalent Chromium	DUP	1222079-13	0.0012260	0.0012650		mg/L	3.1		10	J
	MS	1222079-13	0.0012260	0.053163	0.052632	mg/L		98.7		85 - 115
	MSD	1222079-13	0.0012260	0.054926	0.052632	mg/L	3.3	102	10	85 - 115
QC Batch ID: BVK1785		Used client sample: Y - Description: MW-11-2, 11/14/2012 09:30								
Total Recoverable Chromium	DUP	1222079-07	ND	ND		ug/L			20	
	MS	1222079-07	ND	38.786	40.000	ug/L		97.0		70 - 130
	MSD	1222079-07	ND	39.383	40.000	ug/L	1.5	98.5	20	70 - 130
QC Batch ID: BVK1786		Used client sample: Y - Description: MW-21-2, 11/14/2012 12:30								
Total Recoverable Chromium	DUP	1222079-12	ND	ND		ug/L			20	
	MS	1222079-12	ND	39.284	40.000	ug/L		98.2		70 - 130
	MSD	1222079-12	ND	38.126	40.000	ug/L	3.0	95.3	20	70 - 130

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 11/29/2012 16:51
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 12/03/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1222208

Invoice ID: B135260

Enclosed are the results of analyses for samples received by the laboratory on 11/15/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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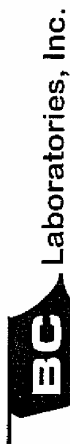
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Chain of Custody Form



Page 1 of 1

Report To: Battelle MHTS
Client: David Conner
Attn: David Conner
Street Address: 505 King Ave.
City: Columbus **State:** OH **Zip:** 43201
Phone: (614) 424-5489 **Fax:** (614) 458-5489
Email Address: connerd@battelle.org
Submission #: 12-22208

Project Description: JPL-GW Monitoring
Project Code: 4Q12
Sampler (s): Blaine Tech

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-9-11S1Z	11-15-12	0700	AQ
-2	MW-6	0815		
-3	DOPE-5-4Q1Z	0815		
-4	MW-10	0920		
-5	MW-9	1035		
-6	MW-15	1120		
-7	DOPE-6-4Q1Z	1120		
-8	MW-5	1320		
-9	MW-7	1415		↓
	MW-12			

Analysis Requested

Analysis	Requested
VOCs EPA 524.2	X
Total Chromium 200.8 (ug/L)	X
Perchlorate 314.0	X
Hexavalent Cr6 -7196 (mg/L)	X
Chloride, Nitrate, Sulfate	
Orthophosphate 365.1	
Nitrite 353.2	

Notes: MS/MSD Level IV

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____

Comments:

*****PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)*****
 *****Also, please indicate which samples are level III and level IV CLP*****

Cost Center:
 1. Relinquished By: [Signature] Date: 11-15-12 Time: 1600
 2. Relinquished By: Nicole (sc) Date: 11-15-12 Time: 1600
 3. Relinquished By: [Signature] Date: 11-15-12 Time: 1945

Global ID:
 1. Received By: Nicole (sc) Date: 11-15-12 Time: 1600
 2. Received By: [Signature] Date: 11-15-12 Time: 1620
 3. Received By: [Signature] Date: 11-15-12 Time: 1945

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com



Chain of Custody and Cooler Receipt Form for 1222208 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 1

Submission #: 12-22208

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.95 Container: p/pe Thermometer ID: 207 Date/Time 11-15-12
 Temperature: (A) 1.3 °C / (C) 1.5 °C Analyst Init JNW 1945

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A3	A3	A3	A3	A3	A3	A3	A3	
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

CHK BY K/Q
 DISTRIBUTION NO. []
 SUB-OUT []

SHORT HOLDING TIME
 Cr+6 NO₂ NO₃ OP SS
 DO Cl₂ BOD MBAS COT

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 11-15-12 2055
 A = Actual / C = Corrected



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1222208-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-9-111512 Sampled By: Blaine Tech of BAT	Receive Date: 11/15/2012 19:45 Sampling Date: 11/15/2012 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): TB-9-111512 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1222208-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-6 Sampled By: Blaine Tech of BAT	Receive Date: 11/15/2012 19:45 Sampling Date: 11/15/2012 08:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1222208-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUPE-5-4Q12 Sampled By: Blaine Tech of BAT	Receive Date: 11/15/2012 19:45 Sampling Date: 11/15/2012 08:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): DUPE-5-4Q12 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1222208-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-10 Sampled By: Blaine Tech of BAT	Receive Date: 11/15/2012 19:45 Sampling Date: 11/15/2012 09:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-10 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1222208-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-9 Sampled By: Blaine Tech of BAT	Receive Date: 11/15/2012 19:45 Sampling Date: 11/15/2012 10:35 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-9 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1222208-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-15 Sampled By: Blaine Tech of BAT	Receive Date: 11/15/2012 19:45 Sampling Date: 11/15/2012 11:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-15 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1222208-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUPE-6-4Q12 Sampled By: Blaine Tech of BAT	Receive Date: 11/15/2012 19:45 Sampling Date: 11/15/2012 11:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): DUPE-6-4Q12 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1222208-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-5 Sampled By: Blaine Tech of BAT	Receive Date: 11/15/2012 19:45 Sampling Date: 11/15/2012 13:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1222208-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-7 Sampled By: Blaine Tech of BAT	Receive Date: 11/15/2012 19:45 Sampling Date: 11/15/2012 14:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 00000000000 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-01	Client Sample Name: JPL-GW, TB-9-111512, 11/15/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-01	Client Sample Name: JPL-GW, TB-9-111512, 11/15/2012 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-01	Client Sample Name: JPL-GW, TB-9-111512, 11/15/2012 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 10:05	MGC	MS-V5	1	BVK1309



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222208-01	Client Sample Name: JPL-GW, TB-9-111512, 11/15/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 10:05	MGC	MS-V5	1	BVK1309



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-02	Client Sample Name: JPL-GW, MW-6, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.72	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.31	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	0.28	ug/L	0.50	0.18	EPA-524.2	ND	J	1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	0.19	ug/L	0.50	0.15	EPA-524.2	ND	J	1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-02		Client Sample Name: JPL-GW, MW-6, 11/15/2012 8:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	1.4	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	3.6	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-02	Client Sample Name: JPL-GW, MW-6, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 10:27	MGC	MS-V5	1	BVK1309



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222208-02	Client Sample Name: JPL-GW, MW-6, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 10:27	MGC	MS-V5	1	BVK1309



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222208-02	Client Sample Name: JPL-GW, MW-6, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.4	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/28/12	11/28/12 16:48	LS1	IC6	1	BVK1902

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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222208-02	Client Sample Name: JPL-GW, MW-6, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0011	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/16/12	11/16/12 08:11	TDC	KONE-1	1	BVK1290
2	EPA-200.8	11/28/12	11/28/12 15:03	SRM	PE-EL2	1	BVK1862



Battelle MHTS
505 King Ave.
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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-03	Client Sample Name: JPL-GW, DUPE-5-4Q12, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.75	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.32	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	0.30	ug/L	0.50	0.18	EPA-524.2	ND	J	1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	0.20	ug/L	0.50	0.15	EPA-524.2	ND	J	1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-03	Client Sample Name: JPL-GW, DUPE-5-4Q12, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	1.4	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	3.5	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-03	Client Sample Name: JPL-GW, DUPE-5-4Q12, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 10:49	MGC	MS-V5	1	BVK1309



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222208-03	Client Sample Name: JPL-GW, DUPE-5-4Q12, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 10:49	MGC	MS-V5	1	BVK1309

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222208-03	Client Sample Name: JPL-GW, DUPE-5-4Q12, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.3	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/28/12	11/28/12 17:01	LS1	IC6	1	BVK1902



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222208-03	Client Sample Name: JPL-GW, DUPE-5-4Q12, 11/15/2012 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0011	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/16/12	11/16/12 08:07	TDC	KONE-1	1	BVK1290
2	EPA-200.8	11/28/12	11/28/12 15:07	SRM	PE-EL2	1	BVK1862

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Battelle MHTS
505 King Ave.
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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-04	Client Sample Name: JPL-GW, MW-10, 11/15/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.98	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.11	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-04	Client Sample Name: JPL-GW, MW-10, 11/15/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.69	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	5.6	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-04	Client Sample Name: JPL-GW, MW-10, 11/15/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 11:12	MGC	MS-V5	1	BVK1309



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222208-04	Client Sample Name: JPL-GW, MW-10, 11/15/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 11:12	MGC	MS-V5	1	BVK1309

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222208-04	Client Sample Name: JPL-GW, MW-10, 11/15/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.1	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/28/12	11/28/12 17:14	LS1	IC6	1	BVK1902

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222208-04	Client Sample Name: JPL-GW, MW-10, 11/15/2012 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0056	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	21	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/16/12	11/16/12 08:14	TDC	KONE-1	1	BVK1290
2	EPA-200.8	11/28/12	11/28/12 15:10	SRM	PE-EL2	1	BVK1862

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Battelle MHTS
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Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-05	Client Sample Name: JPL-GW, MW-9, 11/15/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-05	Client Sample Name: JPL-GW, MW-9, 11/15/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-05	Client Sample Name: JPL-GW, MW-9, 11/15/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 11:34	MGC	MS-V5	1	BVK1309

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222208-05	Client Sample Name: JPL-GW, MW-9, 11/15/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 11:34	MGC	MS-V5	1	BVK1309



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222208-05	Client Sample Name: JPL-GW, MW-9, 11/15/2012 10:35:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/28/12	11/28/12 17:28	LS1	IC6	1	BVK1902



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222208-05	Client Sample Name: JPL-GW, MW-9, 11/15/2012 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.74	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/16/12	11/16/12 08:07	TDC	KONE-1	1	BVK1290
2	EPA-200.8	11/28/12	11/28/12 15:13	SRM	PE-EL2	1	BVK1862

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-06	Client Sample Name: JPL-GW, MW-15, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-06	Client Sample Name: JPL-GW, MW-15, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-06	Client Sample Name: JPL-GW, MW-15, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 11:57	MGC	MS-V5	1	BVK1309



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222208-06	Client Sample Name: JPL-GW, MW-15, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 11:57	MGC	MS-V5	1	BVK1309

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Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222208-06	Client Sample Name: JPL-GW, MW-15, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/28/12	11/28/12 17:41	LS1	IC6	1	BVK1902



Battelle MHTS
505 King Ave.
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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222208-06	Client Sample Name: JPL-GW, MW-15, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.92	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/16/12	11/16/12 08:07	TDC	KONE-1	1	BVK1290
2	EPA-200.8	11/28/12	11/28/12 15:16	SRM	PE-EL2	1	BVK1862

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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-07	Client Sample Name: JPL-GW, DUPE-6-4Q12, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-07	Client Sample Name: JPL-GW, DUPE-6-4Q12, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-07	Client Sample Name: JPL-GW, DUPE-6-4Q12, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 12:19	MGC	MS-V5	1	BVK1309



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222208-07	Client Sample Name: JPL-GW, DUPE-6-4Q12, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 12:19	MGC	MS-V5	1	BVK1309

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505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222208-07	Client Sample Name: JPL-GW, DUPE-6-4Q12, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/28/12	11/28/12 17:54	LS1	IC6	1	BVK1902

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Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222208-07	Client Sample Name: JPL-GW, DUPE-6-4Q12, 11/15/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/16/12	11/16/12 08:11	TDC	KONE-1	1	BVK1290
2	EPA-200.8	11/28/12	11/28/12 15:19	SRM	PE-EL2	1	BVK1862



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-08	Client Sample Name: JPL-GW, MW-5, 11/15/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-08	Client Sample Name: JPL-GW, MW-5, 11/15/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-08	Client Sample Name: JPL-GW, MW-5, 11/15/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 12:41	MGC	MS-V5	1	BVK1309



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222208-08	Client Sample Name: JPL-GW, MW-5, 11/15/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 12:41	MGC	MS-V5	1	BVK1309

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505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222208-08	Client Sample Name: JPL-GW, MW-5, 11/15/2012 1:20:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/28/12	11/28/12 18:08	LS1	IC6	1	BVK1902



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222208-08	Client Sample Name: JPL-GW, MW-5, 11/15/2012 1:20:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/16/12	11/16/12 08:07	TDC	KONE-1	1	BVK1290
2	EPA-200.8	11/28/12	11/28/12 14:24	SRM	PE-EL2	1	BVK1862



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-09	Client Sample Name: JPL-GW, MW-7, 11/15/2012 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	5.4	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.49	ug/L	0.50	0.18	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	7.8	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	2.5	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-09		Client Sample Name: JPL-GW, MW-7, 11/15/2012 2:15:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	0.75	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.57	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222208-09	Client Sample Name: JPL-GW, MW-7, 11/15/2012 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 07:50	MGC	MS-V5	1	BVK1309



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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222208-09	Client Sample Name: JPL-GW, MW-7, 11/15/2012 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 07:50	MGC	MS-V5	1	BVK1309



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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222208-09	Client Sample Name: JPL-GW, MW-7, 11/15/2012 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	63	mg/L	0.50	0.066	EPA-300.0	0.12		1
Nitrate as N	1.2	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	39	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	0.013	mg/L	0.050	0.010	EPA-353.2	0.016	J	2
Perchlorate	1.7	ug/L	4.0	0.81	EPA-314.0	ND	J	3
ortho-Phosphate as P	0.013	mg/L	0.020	0.0026	EPA-365.1	0.0027	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/15/12	11/16/12 00:35	LS1	IC1	1	BVK1274
2	EPA-353.2	11/16/12	11/16/12 09:43	TDC	KONE-1	1	BVK1287
3	EPA-314.0	11/28/12	11/28/12 19:54	LS1	IC6	1	BVK1902
4	EPA-365.1	11/16/12	11/16/12 09:42	TDC	KONE-1	1	BVK1289



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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222208-09	Client Sample Name: JPL-GW, MW-7, 11/15/2012 2:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0021	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	9.0	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/16/12	11/16/12 08:22	TDC	KONE-1	1	BVK1290
2	EPA-200.8	11/28/12	11/28/12 15:22	SRM	PE-EL2	1	BVK1862



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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1309						
Benzene	BVK1309-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK1309-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK1309-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK1309-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK1309-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK1309-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK1309-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK1309-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK1309-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK1309-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK1309-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK1309-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK1309-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK1309-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK1309-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK1309-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVK1309-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK1309-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK1309-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK1309-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK1309-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK1309-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK1309-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK1309-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK1309-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK1309-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK1309-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK1309-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK1309-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK1309-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK1309-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK1309-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK1309-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK1309-BLK1	ND	ug/L	0.50	0.14	

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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1309						
trans-1,3-Dichloropropene	BVK1309-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK1309-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK1309-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK1309-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK1309-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK1309-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK1309-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK1309-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK1309-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK1309-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK1309-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2-Tetrachloroethane	BVK1309-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK1309-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK1309-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK1309-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK1309-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVK1309-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK1309-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK1309-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK1309-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK1309-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK1309-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK1309-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK1309-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK1309-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK1309-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK1309-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK1309-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK1309-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK1309-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK1309-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK1309-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK1309-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK1309-BLK1	ND	ug/L	4.0	0.97	

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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1309						
Ethyl t-butyl ether	BVK1309-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK1309-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK1309-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK1309-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK1309-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK1309-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK1309-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK1309-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK1309-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK1309-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK1309-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK1309-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK1309-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK1309-BLK1	107	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK1309-BLK1	98.1	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK1309-BLK1	89.5	%	80 - 120 (LCL - UCL)		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1309										
Benzene	BVK1309-BS1	LCS	24.350	25.000	ug/L	97.4		70 - 130		
Bromodichloromethane	BVK1309-BS1	LCS	27.230	25.000	ug/L	109		70 - 130		
Chlorobenzene	BVK1309-BS1	LCS	22.410	25.000	ug/L	89.6		70 - 130		
Chloroethane	BVK1309-BS1	LCS	24.390	25.000	ug/L	97.6		70 - 130		
1,4-Dichlorobenzene	BVK1309-BS1	LCS	21.570	25.000	ug/L	86.3		70 - 130		
1,1-Dichloroethane	BVK1309-BS1	LCS	22.870	25.000	ug/L	91.5		70 - 130		
1,1-Dichloroethene	BVK1309-BS1	LCS	22.780	25.000	ug/L	91.1		70 - 130		
Toluene	BVK1309-BS1	LCS	24.920	25.000	ug/L	99.7		70 - 130		
Trichloroethene	BVK1309-BS1	LCS	23.300	25.000	ug/L	93.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK1309-BS1	LCS	10.070	10.000	ug/L	101		75 - 125		
Toluene-d8 (Surrogate)	BVK1309-BS1	LCS	9.9300	10.000	ug/L	99.3		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK1309-BS1	LCS	9.3200	10.000	ug/L	93.2		80 - 120		



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Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1309		Used client sample: Y - Description: MW-7, 11/15/2012 14:15								
Benzene	MS	1222208-09	ND	23.900	25.000	ug/L		95.6		70 - 130
	MSD	1222208-09	ND	24.430	25.000	ug/L	2.2	97.7	20	70 - 130
Bromodichloromethane	MS	1222208-09	5.4100	32.940	25.000	ug/L		110		70 - 130
	MSD	1222208-09	5.4100	34.510	25.000	ug/L	4.7	116	20	70 - 130
Chlorobenzene	MS	1222208-09	ND	23.200	25.000	ug/L		92.8		70 - 130
	MSD	1222208-09	ND	22.930	25.000	ug/L	1.2	91.7	20	70 - 130
Chloroethane	MS	1222208-09	ND	24.390	25.000	ug/L		97.6		70 - 130
	MSD	1222208-09	ND	25.180	25.000	ug/L	3.2	101	20	70 - 130
1,4-Dichlorobenzene	MS	1222208-09	ND	22.230	25.000	ug/L		88.9		70 - 130
	MSD	1222208-09	ND	22.180	25.000	ug/L	0.2	88.7	20	70 - 130
1,1-Dichloroethane	MS	1222208-09	ND	22.650	25.000	ug/L		90.6		70 - 130
	MSD	1222208-09	ND	23.300	25.000	ug/L	2.8	93.2	20	70 - 130
1,1-Dichloroethene	MS	1222208-09	ND	22.870	25.000	ug/L		91.5		70 - 130
	MSD	1222208-09	ND	22.920	25.000	ug/L	0.2	91.7	20	70 - 130
Toluene	MS	1222208-09	ND	25.180	25.000	ug/L		101		70 - 130
	MSD	1222208-09	ND	25.560	25.000	ug/L	1.5	102	20	70 - 130
Trichloroethene	MS	1222208-09	ND	23.660	25.000	ug/L		94.6		70 - 130
	MSD	1222208-09	ND	24.010	25.000	ug/L	1.5	96.0	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1222208-09	ND	9.5700	10.000	ug/L		95.7		75 - 125
	MSD	1222208-09	ND	9.6200	10.000	ug/L	0.5	96.2		75 - 125
Toluene-d8 (Surrogate)	MS	1222208-09	ND	9.9900	10.000	ug/L		99.9		80 - 120
	MSD	1222208-09	ND	9.9700	10.000	ug/L	0.2	99.7		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1222208-09	ND	9.6400	10.000	ug/L		96.4		80 - 120
	MSD	1222208-09	ND	9.3100	10.000	ug/L	3.5	93.1		80 - 120



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Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1309						
Chloroacetonitrile	BVK1309-BLK1	0	ug/L			
1-Chlorobutane	BVK1309-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK1309-BLK1	0	ug/L			
Methyl acrylate	BVK1309-BLK1	0	ug/L			
Nitrobenzene	BVK1309-BLK1	0	ug/L			
2-Nitropropane	BVK1309-BLK1	0	ug/L			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1274						
Chloride	BVK1274-BLK1	0.12200	mg/L	0.50	0.066	J
Nitrate as N	BVK1274-BLK1	ND	mg/L	0.10	0.021	
Sulfate	BVK1274-BLK1	ND	mg/L	1.0	0.12	
QC Batch ID: BVK1287						
Nitrite as N	BVK1287-BLK1	0.015864	mg/L	0.050	0.010	J
QC Batch ID: BVK1289						
ortho-Phosphate as P	BVK1289-BLK1	0.0026780	mg/L	0.020	0.0026	J
QC Batch ID: BVK1902						
Perchlorate	BVK1902-BLK1	ND	ug/L	4.0	0.81	



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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVK1274										
Chloride	BVK1274-BS1	LCS	49.353	50.000	mg/L	98.7		90 - 110		
Nitrate as N	BVK1274-BS1	LCS	4.9250	5.0000	mg/L	98.5		90 - 110		
Sulfate	BVK1274-BS1	LCS	98.464	100.00	mg/L	98.5		90 - 110		
QC Batch ID: BVK1287										
Nitrite as N	BVK1287-BS1	LCS	0.49763	0.50000	mg/L	99.5		90 - 110		
QC Batch ID: BVK1289										
ortho-Phosphate as P	BVK1289-BS1	LCS	0.20769	0.20000	mg/L	104		90 - 110		
QC Batch ID: BVK1902										
Perchlorate	BVK1902-BS1	LCS	9.6982	10.000	ug/L	97.0		85 - 115		

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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1274		Used client sample: N								
Chloride	DUP	1222206-01	18.399	18.067		mg/L	1.8		10	
	MS	1222206-01	18.399	72.716	50.505	mg/L		108		80 - 120
	MSD	1222206-01	18.399	72.471	50.505	mg/L	0.3	107	10	80 - 120
Nitrate as N	DUP	1222206-01	5.1620	5.0510		mg/L	2.2		10	
	MS	1222206-01	5.1620	10.253	5.0505	mg/L		101		80 - 120
	MSD	1222206-01	5.1620	10.158	5.0505	mg/L	0.9	98.9	10	80 - 120
Sulfate	DUP	1222206-01	31.771	31.346		mg/L	1.3		10	
	MS	1222206-01	31.771	139.78	101.01	mg/L		107		80 - 120
	MSD	1222206-01	31.771	139.62	101.01	mg/L	0.1	107	10	80 - 120
QC Batch ID: BVK1287		Used client sample: Y - Description: MW-7, 11/15/2012 14:15								
Nitrite as N	DUP	1222208-09	0.013129	0.015421		mg/L	16.1		10	J,A02
	MS	1222208-09	0.013129	0.51663	0.52632	mg/L		95.7		90 - 110
	MSD	1222208-09	0.013129	0.52614	0.52632	mg/L	1.8	97.5	10	90 - 110
QC Batch ID: BVK1289		Used client sample: Y - Description: MW-7, 11/15/2012 14:15								
ortho-Phosphate as P	DUP	1222208-09	0.013307	0.013288		mg/L	0.1		10	J
	MS	1222208-09	0.013307	0.22459	0.21053	mg/L		100		90 - 110
	MSD	1222208-09	0.013307	0.23185	0.21053	mg/L	3.2	104	10	90 - 110
QC Batch ID: BVK1902		Used client sample: Y - Description: MW-5, 11/15/2012 13:20								
Perchlorate	DUP	222208-08RE'	ND	ND		ug/L			15	
	MS	222208-08RE'	ND	190.64	202.02	ug/L		94.4		80 - 120
	MSD	222208-08RE'	ND	183.79	202.02	ug/L	3.7	91.0	15	80 - 120

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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1290						
Hexavalent Chromium	BVK1290-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1862						
Total Recoverable Chromium	BVK1862-BLK1	ND	ug/L	3.0	0.50	



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505 King Ave.
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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1290										
Hexavalent Chromium	BVK1290-BS1	LCS	0.048600	0.050000	mg/L	97.2		85 - 115		
QC Batch ID: BVK1862										
Total Recoverable Chromium	BVK1862-BS1	LCS	41.273	40.000	ug/L	103		85 - 115		



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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1290		Used client sample: Y - Description: MW-5, 11/15/2012 13:20								
Hexavalent Chromium	DUP	1222208-08	ND	ND		mg/L			10	
	MS	1222208-08	ND	0.051165	0.052632	mg/L		97.2		85 - 115
	MSD	1222208-08	ND	0.051342	0.052632	mg/L	0.3	97.6	10	85 - 115
QC Batch ID: BVK1862		Used client sample: Y - Description: MW-5, 11/15/2012 13:20								
Total Recoverable Chromium	DUP	1222208-08	1.1350	0.94100		ug/L	18.7		20	J
	MS	1222208-08	1.1350	39.382	40.000	ug/L		95.6		70 - 130
	MSD	1222208-08	1.1350	41.697	40.000	ug/L	5.7	101	20	70 - 130

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Reported: 12/03/2012 17:07
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A02 The difference between duplicate readings is less than the PQL.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 12/04/2012

David Conner

Battelle MHTS
505 King Ave.
Columbus, OH 43201

Project: JPL- GW Monitoring Wells
BC Work Order: 1222272
Invoice ID: B135282

Enclosed are the results of analyses for samples received by the laboratory on 11/16/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Quality Control Reports

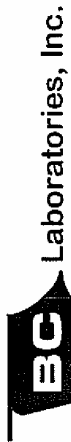
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Chain of Custody Form



Page 1 of 1

Report To: Battelle MHTS
Client: David Conner
Attn: David Conner
Street Address: 505 King Ave.
City: Columbus **State:** OH **Zip:** 43201
Phone: (614) 424-5489 **Fax:** (614) 458-5489
Email Address: connerd@battelle.org
Submission #: 12-22272

Project Description: JPL-GW Monitoring
Project Code: 4Q12
Sampler(s): Blaine Tech

Analysis Requested:
 VOCs EPA 524.2
 Total Chromium 200.8 (ug/L)
 Perchlorate 314.0
 Hexavalent Cr6-7195 (mg/L)
 Chloride, Nitrate, Sulfate
 Orthophosphate 365.1
 Nitrite 353.2

Matrix: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Comments:
 *****PLEASE NOTE WHICH SAMPLES TO USE FOR QC (MS/MSD)*****
 *****Also, please indicate which samples are level III and level IV CLP*****

Global ID:
 1. Received By: [Signature] Date: 11-16-12 Time: 1407
 2. Received By: [Signature] Date: 11-16-12 Time: 1405
 3. Received By: [Signature] Date: 11-16-12 Time: 1748

Cost Center:
 1. Reinquished By: [Signature] Date: 11-16-12 Time: 1407
 2. Reinquished By: [Signature] Date: 11-16-12 Time: 1405
 3. Reinquished By: [Signature] Date: 11-16-12 Time: 1748

MBU Site:
CVX RCRA:
GeoTracker 5 File (CA Default):
GeoTracker 2 File:
Other (Specify): _____

Sample #	Sample Description	Date	Time	Matrix*	Notes
-1	TB-JO-11G1Z	11-16-12	0700	AQ	
-2	MW-13	11-16-12	0720		
-3	DUPE-7-4Q1Z	11-16-12	0720		
-4	MW-8	11-16-12	0800		
-5	DUPE-8-4Q1Z	11-16-12	0800		
-6	MW-1	11-16-12	0935		
-7	MW-16	11-16-12	1210		Level IV

Billing: Client: SAME
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com



Chain of Custody and Cooler Receipt Form for 122272 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 1

Submission #: 12-22272

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.95 Container: OTPE Thermometer ID: 207 Date/Time: 11-16-12
 Temperature: (A) 3.5 °C / (C) 3.7 °C Analyst Init: KIQ 1750

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	ACI									
40ml VOA VIAL		A.3	A.3	A.3	A.3	A.3	A.3			
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: KIQ Date/Time: 11-16-12 @ 1810



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1222272-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-10-111612 Sampled By: Blaine Tech of BAT	Receive Date: 11/16/2012 17:48 Sampling Date: 11/16/2012 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-10-111612 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1222272-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-13 Sampled By: Blaine Tech of BAT	Receive Date: 11/16/2012 17:48 Sampling Date: 11/16/2012 07:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-13 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1222272-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUPE-7-4Q12 Sampled By: Blaine Tech of BAT	Receive Date: 11/16/2012 17:48 Sampling Date: 11/16/2012 07:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUPE-7-4Q12 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--



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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1222272-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-8 Sampled By: Blaine Tech of BAT	Receive Date: 11/16/2012 17:48 Sampling Date: 11/16/2012 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1222272-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUPE-8-4Q12 Sampled By: Blaine Tech of BAT	Receive Date: 11/16/2012 17:48 Sampling Date: 11/16/2012 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUPE-8-4Q12 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1222272-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-1 Sampled By: Blaine Tech of BAT	Receive Date: 11/16/2012 17:48 Sampling Date: 11/16/2012 09:35 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---



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Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1222272-07	COC Number:	---	Receive Date:	11/16/2012 17:48
	Project Number:	JPL-GW	Sampling Date:	11/16/2012 12:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-16	Lab Matrix:	Water
	Sampled By:	Blaine Tech of BAT	Sample Type:	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-16	
			Matrix: W	
			Sample QC Type (SACode): CS	
		Cooler ID:		



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Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-01	Client Sample Name: JPL-GW, TB-10-111612, 11/16/2012 7:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-01	Client Sample Name: JPL-GW, TB-10-111612, 11/16/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-01	Client Sample Name: JPL-GW, TB-10-111612, 11/16/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 14:11	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222272-01	Client Sample Name: JPL-GW, TB-10-111612, 11/16/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 14:11	MGC	MS-V5	1	BVK1310

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505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-02	Client Sample Name: JPL-GW, MW-13, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	2.1	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.43	ug/L	0.50	0.18	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	8.3	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	0.24	ug/L	0.50	0.18	EPA-524.2	ND	J	1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-02	Client Sample Name: JPL-GW, MW-13, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	0.49	ug/L	0.50	0.48	EPA-524.2	ND	J	1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.13	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.11	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-02	Client Sample Name: JPL-GW, MW-13, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	83.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 14:34	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222272-02	Client Sample Name: JPL-GW, MW-13, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 14:34	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222272-02	Client Sample Name: JPL-GW, MW-13, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	63	mg/L	0.50	0.066	EPA-300.0	0.13		1
Nitrate as N	1.6	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	44	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND	S05	2
Perchlorate	410	ug/L	200	40	EPA-314.0	ND	A01	3
ortho-Phosphate as P	0.057	mg/L	0.020	0.0026	EPA-365.1	ND	S05	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/16/12	11/16/12 19:52	LS1	IC2	1	BVK1326
2	EPA-353.2	11/19/12	11/19/12 08:40	TDC	KONE-1	1	BVK1375
3	EPA-314.0	11/29/12	11/29/12 15:45	LS1	IC6	50	BVK1986
4	EPA-365.1	11/19/12	11/19/12 08:25	TDC	KONE-1	1	BVK1376



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222272-02	Client Sample Name: JPL-GW, MW-13, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0067	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	23	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/16/12	11/16/12 18:58	TDC	KONE-1	1	BVK1377
2	EPA-200.8	11/29/12	11/29/12 12:56	SRM	PE-EL2	1	BVK1929



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-03	Client Sample Name: JPL-GW, DUPE-7-4Q12, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	2.0	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.45	ug/L	0.50	0.18	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	8.5	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	0.24	ug/L	0.50	0.18	EPA-524.2	ND	J	1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-03	Client Sample Name: JPL-GW, DUPE-7-4Q12, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	0.48	ug/L	0.50	0.48	EPA-524.2	ND	J	1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.14	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.12	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-03	Client Sample Name: JPL-GW, DUPE-7-4Q12, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 14:56	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222272-03	Client Sample Name: JPL-GW, DUPE-7-4Q12, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 14:56	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222272-03	Client Sample Name: JPL-GW, DUPE-7-4Q12, 11/16/2012 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	420	ug/L	200	40	EPA-314.0	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/29/12	11/30/12 01:30	LD1	IC6	50	BVK1986



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222272-03	Client Sample Name: JPL-GW, DUPE-7-4Q12, 11/16/2012 7:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0065	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	43	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/16/12	11/16/12 18:58	TDC	KONE-1	1	BVK1377
2	EPA-200.8	11/29/12	11/29/12 12:59	SRM	PE-EL2	1	BVK1929



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-04	Client Sample Name: JPL-GW, MW-8, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-04	Client Sample Name: JPL-GW, MW-8, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	0.24	ug/L	0.50	0.13	EPA-524.2	ND	J	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-04	Client Sample Name: JPL-GW, MW-8, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 15:19	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222272-04	Client Sample Name: JPL-GW, MW-8, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 15:19	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222272-04	Client Sample Name: JPL-GW, MW-8, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	8.6	mg/L	0.50	0.066	EPA-300.0	0.13		1
Nitrate as N	0.15	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	21	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND	S05	2
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	0.0091	mg/L	0.020	0.0026	EPA-365.1	ND	J,S05	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/16/12	11/16/12 20:05	LS1	IC2	1	BVK1326
2	EPA-353.2	11/19/12	11/19/12 08:40	TDC	KONE-1	1	BVK1375
3	EPA-314.0	11/29/12	11/29/12 13:45	LD1	IC6	1	BVK1986
4	EPA-365.1	11/19/12	11/19/12 08:25	TDC	KONE-1	1	BVK1376



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222272-04	Client Sample Name: JPL-GW, MW-8, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00080	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	1.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/16/12	11/16/12 18:58	TDC	KONE-1	1	BVK1377
2	EPA-200.8	11/29/12	11/29/12 13:02	SRM	PE-EL2	1	BVK1929

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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-05	Client Sample Name: JPL-GW, DUPE-8-4Q12, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-05	Client Sample Name: JPL-GW, DUPE-8-4Q12, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	0.20	ug/L	0.50	0.13	EPA-524.2	ND	J	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-05	Client Sample Name: JPL-GW, DUPE-8-4Q12, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	84.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 15:41	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222272-05	Client Sample Name: JPL-GW, DUPE-8-4Q12, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 15:41	MGC	MS-V5	1	BVK1310

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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222272-05	Client Sample Name: JPL-GW, DUPE-8-4Q12, 11/16/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/29/12	11/29/12 13:58	LD1	IC6	1	BVK1986



Battelle MHTS
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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222272-05	Client Sample Name: JPL-GW, DUPE-8-4Q12, 11/16/2012 8:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/16/12	11/16/12 18:58	TDC	KONE-1	1	BVK1377
2	EPA-200.8	11/29/12	11/29/12 13:05	SRM	PE-EL2	1	BVK1929

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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-06	Client Sample Name: JPL-GW, MW-1, 11/16/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-06	Client Sample Name: JPL-GW, MW-1, 11/16/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-06	Client Sample Name: JPL-GW, MW-1, 11/16/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 13:49	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222272-06	Client Sample Name: JPL-GW, MW-1, 11/16/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 13:49	MGC	MS-V5	1	BVK1310



Battelle MHTS
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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222272-06	Client Sample Name: JPL-GW, MW-1, 11/16/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	11/29/12	11/29/12 14:11	LD1	IC6	1	BVK1986



Battelle MHTS
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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222272-06	Client Sample Name: JPL-GW, MW-1, 11/16/2012 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/16/12	11/16/12 18:57	TDC	KONE-1	1	BVK1377
2	EPA-200.8	11/29/12	11/29/12 13:08	SRM	PE-EL2	1	BVK1929



Battelle MHTS
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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-07	Client Sample Name: JPL-GW, MW-16, 11/16/2012 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	15	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	5.0	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	13	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	10	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-07	Client Sample Name: JPL-GW, MW-16, 11/16/2012 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1222272-07	Client Sample Name: JPL-GW, MW-16, 11/16/2012 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	90.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 16:03	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1222272-07	Client Sample Name: JPL-GW, MW-16, 11/16/2012 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/18/12	11/18/12 16:03	MGC	MS-V5	1	BVK1310



Battelle MHTS
505 King Ave.
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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1222272-07	Client Sample Name: JPL-GW, MW-16, 11/16/2012 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	69	mg/L	0.50	0.066	EPA-300.0	0.13		1
Nitrate as N	1.1	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	40	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND	S05	2
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	0.25	mg/L	0.020	0.0026	EPA-365.1	ND	S05	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/16/12	11/16/12 20:43	LS1	IC2	1	BVK1326
2	EPA-353.2	11/19/12	11/19/12 08:40	TDC	KONE-1	1	BVK1375
3	EPA-314.0	11/29/12	11/29/12 14:51	LD1	IC6	1	BVK1986
4	EPA-365.1	11/19/12	11/19/12 08:25	TDC	KONE-1	1	BVK1376



Battelle MHTS
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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1222272-07	Client Sample Name: JPL-GW, MW-16, 11/16/2012 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.016	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	18	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/16/12	11/16/12 19:00	TDC	KONE-1	1	BVK1377
2	EPA-200.8	11/29/12	11/29/12 13:11	SRM	PE-EL2	1	BVK1929

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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1310						
Benzene	BVK1310-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVK1310-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVK1310-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVK1310-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVK1310-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVK1310-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVK1310-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVK1310-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVK1310-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVK1310-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVK1310-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVK1310-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVK1310-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVK1310-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVK1310-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVK1310-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVK1310-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVK1310-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVK1310-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVK1310-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVK1310-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVK1310-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVK1310-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVK1310-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVK1310-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVK1310-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVK1310-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVK1310-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVK1310-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVK1310-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVK1310-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVK1310-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVK1310-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVK1310-BLK1	ND	ug/L	0.50	0.14	

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Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1310						
trans-1,3-Dichloropropene	BVK1310-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVK1310-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVK1310-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVK1310-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVK1310-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVK1310-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVK1310-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVK1310-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVK1310-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVK1310-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVK1310-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVK1310-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVK1310-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVK1310-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVK1310-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVK1310-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVK1310-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVK1310-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVK1310-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVK1310-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVK1310-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BVK1310-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BVK1310-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVK1310-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVK1310-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVK1310-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVK1310-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVK1310-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BVK1310-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BVK1310-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BVK1310-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVK1310-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVK1310-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVK1310-BLK1	ND	ug/L	4.0	0.97	

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505 King Ave.
Columbus, OH 43201

Reported: 12/04/2012 13:54
Project: JPL- GW Monitoring Wells
Project Number: 4Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1310						
Ethyl t-butyl ether	BVK1310-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BVK1310-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVK1310-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVK1310-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVK1310-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVK1310-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVK1310-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVK1310-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVK1310-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVK1310-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVK1310-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVK1310-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVK1310-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVK1310-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVK1310-BLK1	99.7	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVK1310-BLK1	84.8	%	80 - 120 (LCL - UCL)		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1310										
Benzene	BVK1310-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
Bromodichloromethane	BVK1310-BS1	LCS	26.950	25.000	ug/L	108		70 - 130		
Chlorobenzene	BVK1310-BS1	LCS	22.780	25.000	ug/L	91.1		70 - 130		
Chloroethane	BVK1310-BS1	LCS	24.970	25.000	ug/L	99.9		70 - 130		
1,4-Dichlorobenzene	BVK1310-BS1	LCS	21.800	25.000	ug/L	87.2		70 - 130		
1,1-Dichloroethane	BVK1310-BS1	LCS	23.110	25.000	ug/L	92.4		70 - 130		
1,1-Dichloroethene	BVK1310-BS1	LCS	23.330	25.000	ug/L	93.3		70 - 130		
Toluene	BVK1310-BS1	LCS	25.160	25.000	ug/L	101		70 - 130		
Trichloroethene	BVK1310-BS1	LCS	24.670	25.000	ug/L	98.7		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVK1310-BS1	LCS	10.040	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	BVK1310-BS1	LCS	10.060	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVK1310-BS1	LCS	9.5800	10.000	ug/L	95.8		80 - 120		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery		Lab
								RPD	Percent Recovery	
QC Batch ID: BVK1310										
Used client sample: Y - Description: MW-1, 11/16/2012 09:35										
Benzene	MS	1222272-06	ND	24.990	25.000	ug/L		100		70 - 130
	MSD	1222272-06	ND	23.420	25.000	ug/L	6.5	93.7	20	70 - 130
Bromodichloromethane	MS	1222272-06	ND	28.520	25.000	ug/L		114		70 - 130
	MSD	1222272-06	ND	27.200	25.000	ug/L	4.7	109	20	70 - 130
Chlorobenzene	MS	1222272-06	ND	23.340	25.000	ug/L		93.4		70 - 130
	MSD	1222272-06	ND	22.080	25.000	ug/L	5.5	88.3	20	70 - 130
Chloroethane	MS	1222272-06	ND	24.520	25.000	ug/L		98.1		70 - 130
	MSD	1222272-06	ND	23.610	25.000	ug/L	3.8	94.4	20	70 - 130
1,4-Dichlorobenzene	MS	1222272-06	ND	22.670	25.000	ug/L		90.7		70 - 130
	MSD	1222272-06	ND	20.850	25.000	ug/L	8.4	83.4	20	70 - 130
1,1-Dichloroethane	MS	1222272-06	ND	23.570	25.000	ug/L		94.3		70 - 130
	MSD	1222272-06	ND	22.390	25.000	ug/L	5.1	89.6	20	70 - 130
1,1-Dichloroethene	MS	1222272-06	ND	23.150	25.000	ug/L		92.6		70 - 130
	MSD	1222272-06	ND	22.250	25.000	ug/L	4.0	89.0	20	70 - 130
Toluene	MS	1222272-06	ND	25.700	25.000	ug/L		103		70 - 130
	MSD	1222272-06	ND	24.460	25.000	ug/L	4.9	97.8	20	70 - 130
Trichloroethene	MS	1222272-06	ND	23.640	25.000	ug/L		94.6		70 - 130
	MSD	1222272-06	ND	22.800	25.000	ug/L	3.6	91.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1222272-06	ND	10.100	10.000	ug/L		101		75 - 125
	MSD	1222272-06	ND	10.050	10.000	ug/L	0.5	100		75 - 125
Toluene-d8 (Surrogate)	MS	1222272-06	ND	10.030	10.000	ug/L		100		80 - 120
	MSD	1222272-06	ND	9.9600	10.000	ug/L	0.7	99.6		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1222272-06	ND	9.5000	10.000	ug/L		95.0		80 - 120
	MSD	1222272-06	ND	9.4500	10.000	ug/L	0.5	94.5		80 - 120

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Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1310						
Chloroacetonitrile	BVK1310-BLK1	0	ug/L			
1-Chlorobutane	BVK1310-BLK1	0	ug/L			
1,1-Dichloropropanone	BVK1310-BLK1	0	ug/L			
Methyl acrylate	BVK1310-BLK1	0	ug/L			
Nitrobenzene	BVK1310-BLK1	0	ug/L			
2-Nitropropane	BVK1310-BLK1	0	ug/L			



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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1326						
Chloride	BVK1326-BLK1	0.13300	mg/L	0.50	0.066	J
Nitrate as N	BVK1326-BLK1	ND	mg/L	0.10	0.021	
Sulfate	BVK1326-BLK1	ND	mg/L	1.0	0.12	
QC Batch ID: BVK1375						
Nitrite as N	BVK1375-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BVK1376						
ortho-Phosphate as P	BVK1376-BLK1	ND	mg/L	0.020	0.0026	
QC Batch ID: BVK1986						
Perchlorate	BVK1986-BLK1	ND	ug/L	4.0	0.81	



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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1326										
Chloride	BVK1326-BS1	LCS	51.829	50.000	mg/L	104		90 - 110		
Nitrate as N	BVK1326-BS1	LCS	4.9840	5.0000	mg/L	99.7		90 - 110		
Sulfate	BVK1326-BS1	LCS	102.31	100.00	mg/L	102		90 - 110		
QC Batch ID: BVK1375										
Nitrite as N	BVK1375-BS1	LCS	0.48884	0.50000	mg/L	97.8		90 - 110		
QC Batch ID: BVK1376										
ortho-Phosphate as P	BVK1376-BS1	LCS	0.20819	0.20000	mg/L	104		90 - 110		
QC Batch ID: BVK1986										
Perchlorate	BVK1986-BS1	LCS	10.837	10.000	ug/L	108		85 - 115		



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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVK1326		Used client sample: N								
Chloride	DUP	1222248-01	26.078	26.145		mg/L	0.3		10	
	MS	1222248-01	26.078	80.499	50.505	mg/L		108		80 - 120
	MSD	1222248-01	26.078	80.707	50.505	mg/L	0.3	108	10	80 - 120
Nitrate as N	DUP	1222248-01	2.5260	2.5300		mg/L	0.2		10	
	MS	1222248-01	2.5260	7.5596	5.0505	mg/L		99.7		80 - 120
	MSD	1222248-01	2.5260	7.6707	5.0505	mg/L	1.5	102	10	80 - 120
Sulfate	DUP	1222248-01	27.683	27.771		mg/L	0.3		10	
	MS	1222248-01	27.683	134.54	101.01	mg/L		106		80 - 120
	MSD	1222248-01	27.683	134.65	101.01	mg/L	0.1	106	10	80 - 120
QC Batch ID: BVK1375		Used client sample: Y - Description: MW-13, 11/16/2012 07:20								
Nitrite as N	DUP	1222272-02	ND	ND		mg/L			10	
	MS	1222272-02	ND	0.50789	0.52632	mg/L		96.5		90 - 110
	MSD	1222272-02	ND	0.53506	0.52632	mg/L	5.2	102	10	90 - 110
QC Batch ID: BVK1376		Used client sample: Y - Description: MW-13, 11/16/2012 07:20								
ortho-Phosphate as P	DUP	1222272-02	0.057290	0.054730		mg/L	4.6		10	
	MS	1222272-02	0.057290	0.27495	0.21053	mg/L		103		90 - 110
	MSD	1222272-02	0.057290	0.27500	0.21053	mg/L	0.0	103	10	90 - 110
QC Batch ID: BVK1986		Used client sample: Y - Description: MW-1, 11/16/2012 09:35								
Perchlorate	DUP	222272-06RE'	ND	ND		ug/L			15	
	MS	222272-06RE'	ND	96.557	101.01	ug/L		95.6		80 - 120
	MSD	222272-06RE'	ND	93.101	101.01	ug/L	3.6	92.2	15	80 - 120

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Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVK1377						
Hexavalent Chromium	BVK1377-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVK1929						
Total Recoverable Chromium	BVK1929-BLK1	ND	ug/L	3.0	0.50	



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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1377										
Hexavalent Chromium	BVK1377-BS1	LCS	0.049216	0.050000	mg/L	98.4		85	115	
QC Batch ID: BVK1929										
Total Recoverable Chromium	BVK1929-BS1	LCS	41.004	40.000	ug/L	103		85	115	



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Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVK1377		Used client sample: Y - Description: MW-1, 11/16/2012 09:35								
Hexavalent Chromium	DUP	1222272-06	ND	ND		mg/L			10	
	MS	1222272-06	ND	0.052918	0.052632	mg/L		101		85 - 115
	MSD	1222272-06	ND	0.053086	0.052632	mg/L	0.3	101	10	85 - 115
QC Batch ID: BVK1929		Used client sample: N								
Total Recoverable Chromium	DUP	1222233-01	1.3830	1.2700		ug/L	8.5		20	J
	MS	1222233-01	1.3830	41.812	40.000	ug/L		101		70 - 130
	MSD	1222233-01	1.3830	43.248	40.000	ug/L	3.4	105	20	70 - 130

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Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.